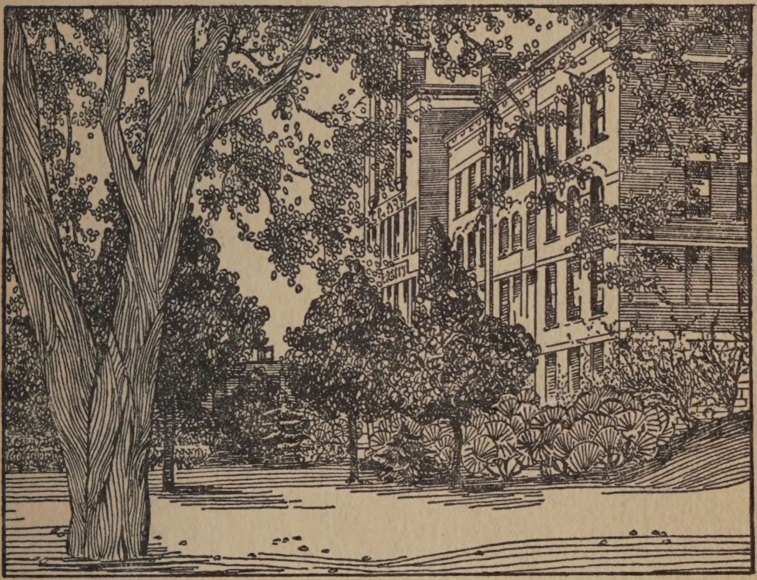
138

Clark University
Sub-Freshman Bulletin



Published in the Interest of Old Friends and New Acquaintances

Worcester, Massachusetts
November, 1932

CLARK UNIVERSITY offers at moderate expense a thorough college training leading to the degree of Bachelor of Arts. The scholastic requirements for the degree are one hundred and twenty semester hours credit, with a rank above the bottom quarter of the class in three-fifths of the total. Three and one-half years' work in Physical Training is also required.

In a limited number of departments, work is offered leading to the degrees of Master of Arts and Doctor of Philosophy.

The presence of a proportionately large graduate student body offers inducement to undergraduates for high standards of work.

Small classes and a relatively large faculty allow close acquaintance with heads of departments.

Undergraduates are encouarged to carry as full a schedule of courses as they are able and still maintain an average in the upper half of their classes. This permits those with sufficient ability to finish the course in three years and one-half or occasionally even in three years.

An endowment above the average given for the specific purpose of keeping the expense of an education low, allows the tuition to be held at $200.00.

Twenty Jonas G. Clark Memorial Scholarships of $100.00 each are available for entering freshmen who rank in the upper quarter of their graduating class. Ten such scholarships are available for each of the three upper classes in college.

Published by the University in January, February, March, April, May, June, October, November and December.
Number 97 November, 1932
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FOREWORD

YOU, as a High School Senior, may wonder why Clark University takes the trouble to send this bulletin to you. One reason is that while the *graduate division* of Clark University has an international reputation among scholars, the *undergraduate division* ("college") is younger and less widely known. We want you to know of it and to realize how attractive its educational opportunities are for young men who wish a first class college training. Clark men today are continuing their work with distinction in the best graduate schools of the country—both business and professional—or carrying on successfully in the various vocations.

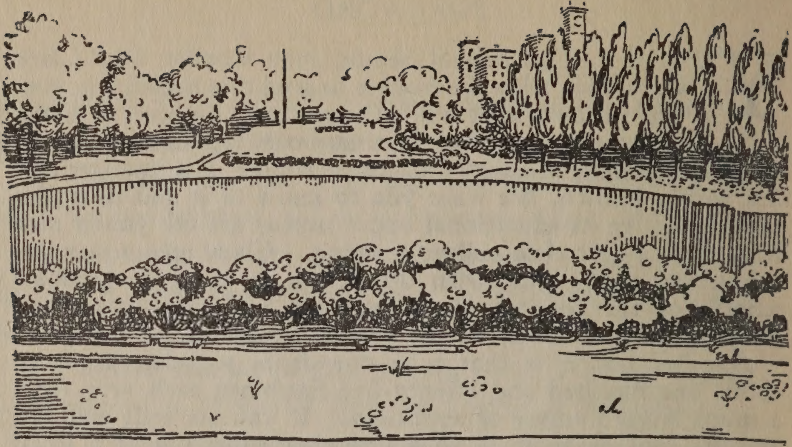
Another reason is that it is our desire to select carefully about one hundred and twenty-five Freshmen each year from a much larger number of applicants. If you are well qualified and are looking forward to a first class education at a small New England college, you will do well to investigate Clark. The opportunities for personal association with the members of the faculty and for the establishment of close friendships with a large proportion of your classmates are especially good and will remain so because under no circumstances will Clark accept a large number of students. You will need fifteen certified units for admission without condition, but two conditions will be allowed if you are in every other way qualified. Deficiencies in certified units may be redeemed by passing the College Board examinations. You will also need good personality and character recommendations.

Finally, although jealously guarding our reputation among New England colleges for the excellence of our scholastic work, we wish our students to have the other delightful experiences which accompany life at college. The opportunities for these as offered by athletic, musical, and social activities are described in the following pages.

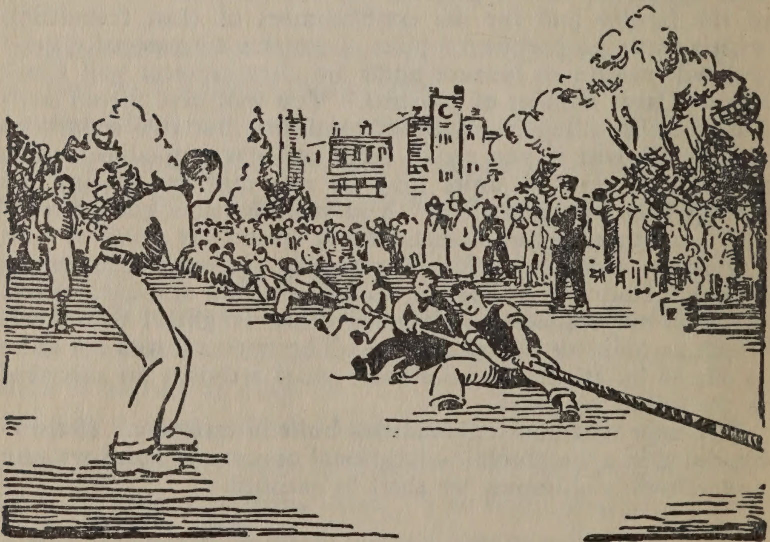
We hope that you will read this bulletin carefully. If thereby you gain a worthwhile educational opportunity and we gain a worthwhile alumnus, we shall be satisfied.

Wallace W. Atwood

President

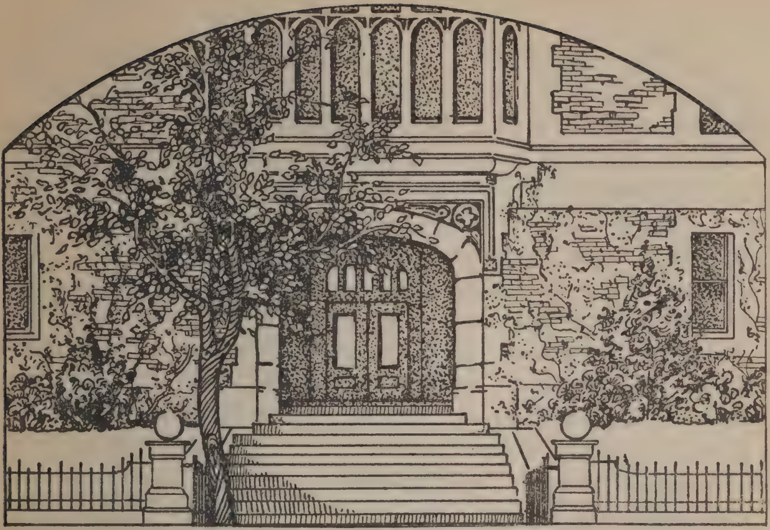


JONAS G. CLARK HALL FROM UNIVERSITY POND



THE ANNUAL FRESHMAN-SOPHOMORE ROPE PULL

The opposing team of 25 men is on the other side of the pond, enjoying (?) the view shown at the top of the page. The losers will all follow the rope through the pond.



LIBRARY DOORWAY

Location

CLARK UNIVERSITY is situated in Worcester, Massachusetts, a city of some 200,000 inhabitants, 45 miles from Boston. Worcester has long been one of the educational centers of New England, and is today the seat of Holy Cross College, Worcester Polytechnic Institute, Assumption College, Worcester State ~~Normal School~~, and Worcester √Teachers Coll Academy, as well as of Clark University. The Worcester Art Museum has one of the notable galleries of the country. The churches of the city number over 100, and give full opportunity for worship according to individual preference. The Y. M. C. A. building, within easy walking distance of the University, contains one of the largest swimming pools east of the Mississippi. The situation of the city is such that opportunities in drama and music are offered superior to those available in most cities of similar size.

Historical

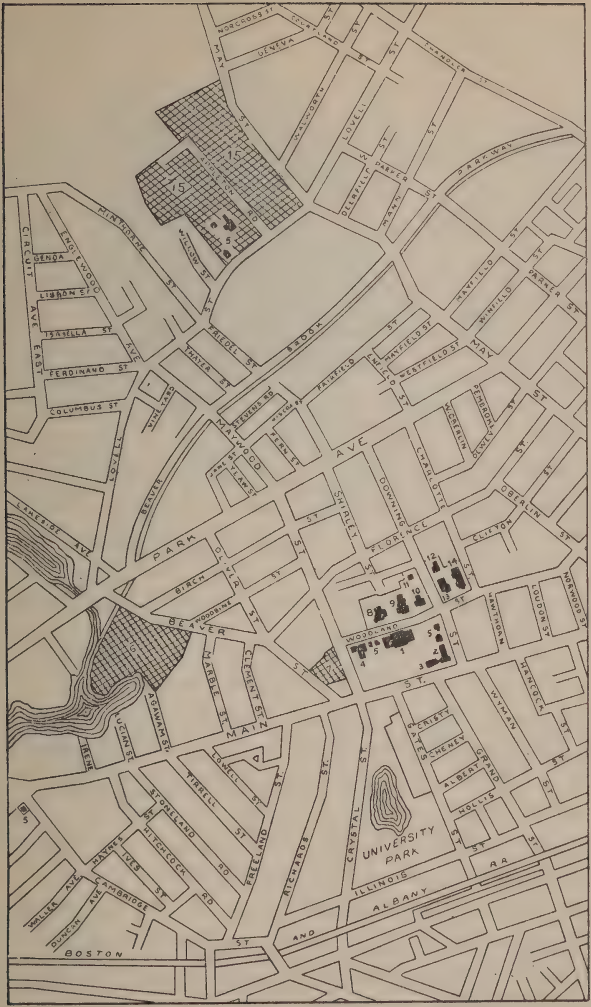
Clark University owes its existence to the generosity of Jonas Gilman Clark, who gave funds for its establishment during his life and bequeathed to it the balance of his fortune at his death. Students were first received in 1889. For the first thirteen years the University was exclusively a graduate school and, under the leadership of President G. Stanley Hall, an able staff of instructors sent out from the University a steady stream of scholarly men and women who have given the institution a prominence disproportionate to its size in the fields of Biology, Chemistry, Education, Mathematics, Physics, and Psychology. Under the provisions of Mr. Clark's will Clark College was established in 1902. At first the University and the College occupied the same grounds and buildings but had separate presidents and faculties. In 1921-1922 plans for their unification were perfected, and they became the Graduate and Undergraduate Divisions of Clark University. The Undergradute Division is still ordinarily referred to as Clark College.

The Campus

The campus consists of a plot of about seven acres, a mile southwest of the business center of Worcester. The offices of administration are in Jonas G. Clark Hall.

Estabrook Hall, the freshman dormitory, is modern in every way and is only a few minutes walk from the campus. It accommodates fifty-one students. The building is cared for by a man and wife of excellent personality who reside in it. The ground floor is occupied by the Dining Hall.

The University has recently developed as an athletic field a plot of about ten acres and equipped it with bleachers and a field house. There is, in addition, the old athletic field an acre or more in extent immediately adjoining the campus, with tennis courts, outdoor basketball court, a six-lap running track, and space for field events.


NORCROSS ST
COURTLAND ST
MAY ST
GENEVA
WALWORTH
LOVELL ST
CHANDLER ST
PARKWAY
DEERFIELD
PARKER ST
MANN ST
15
15
WILLOW ST
5
MINTHORNE ST
CIRCUIT AVE
ENGLEWOOD AVE
GENOA
LISBON ST
ISABELLA ST
EAST
FERDINAND ST
COLUMBUS ST
FRIEDEL ST
THAYER ST
BROOK
MAYFIELD
WINFIELD
PARKER ST
MAY ST
FAIRFIELD
ENFIELD ST
MAYFIELD ST
WESTFIELD ST
PEMBROKE
STEVENS RD
VINEYARD
MAYWOOD
JAMES ST
FERN ST
AVE
SHIRLEY
DOWNING
CHARLOTTE
OBERLIN ST
LOVELL
BEAVER
PARK AVE
LAKESIDE AVE
CLIFTON
FLORENCE
OLIVER ST
BIRCH
WOODBINE
BEAVER
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HAWTHORN
LOUDON ST
NORWOOD ST
WOODLAND ST
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7
MARBLE ST
CLEMENT ST
MAIN ST
AGAWAM ST
LUCIAN ST
IRENE
LOWELL ST
CRISTY
GATES
CHENEY
ALBERT
GRAND ST
HOLLIS ST
WYMAN
HANCOCK ST
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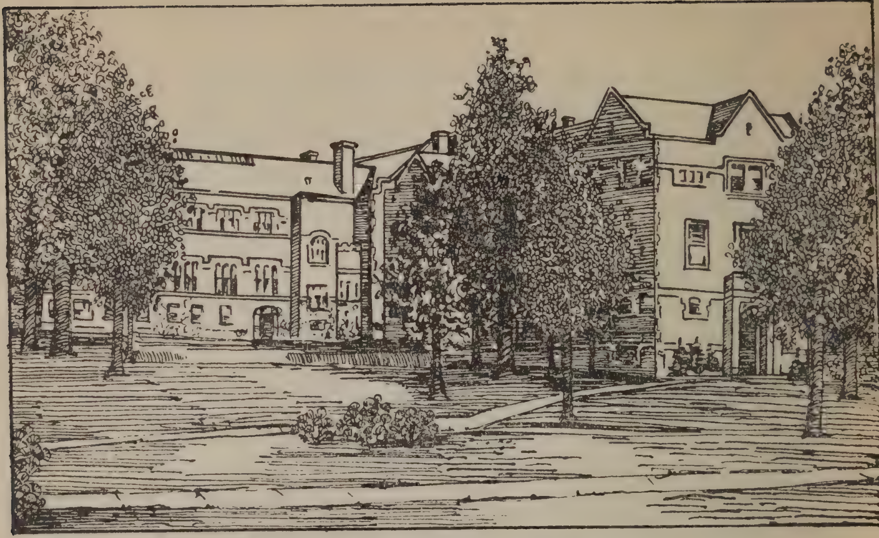
TIRRELL ST
STONELAND RD
HITCHCOCK RD
IVES ST
HAYNES ST
CAMBRIDGE ST
WALLER AVE
DUNCAN AVE
FREELAND ST
RICHARDS ST
CRYSTAL ST
UNIVERSITY PARK
ILLINOIS
BOSTON AND ALBANY RR

LOCATION OF CLARK UNIVERSITY PROPERTY

1. Jonas G. Clark Hall; 2. The Library; 3. The Geography Building; 4. Science Hall; 5. Faculty Homes; 6. Athletic Field; 7. Tennis Courts; 8. Faculty House; 9. President's Home; 10. Dean's Home; 11. Garage; 12. Garage and Conservatory; 13. Home of the late David Hale Fanning; 14. Eastbrook Hall; 15. Hadwen Arboretum.



Library and Geography Building

Endowment, Laboratories, Library, and Faculty

Clark University is a small institution with a total enrollment of approximately 350 full time students, but in contrast to many small institutions has a relatively large endowment—more than five million dollars—with an additional million in its plant. This money provides to an unusual degree the three things which make any institution outstanding—its faculty, its laboratories, and its library. These are the features about which an estimate of Clark should center.

Money has been generously spent in the equipment of research laboratories and the undergraduate student receives much advantage from their presence. The Chemical Laboratory unquestionably has an equipment superior to that of many colleges twice the size of Clark and the Psychological Laboratory is one of the finest in the country.

The Library, with approximately a million dollars available for its exclusive use, deserves special mention. Clark is almost uniquely fortunate among small institutions in this prerequisite for real universitv and college life. The building is open for study from 8 a. m. to 10 p. m. each week day. Over one hundred thousand bound volumes and pamphlets are on the shelves and over five hundred journals are regularly received. About four thousand books are added each year. Each member of the University has direct access to every book and journal.

The Faculty, thirty-eight in number, is in an unusually large ratio to the student enrollment. The high degree of its professional training may be judged by an examination of its educational record on page sixteen. As to experience, only five instructors have taught less than five years. Because of its small student body Clark offers to every student an unusual opportunity for personal acquaintance with the head of the Department in which he is especially interested. *Moreover, with a faculty of this size, Clark is able to do much of its work in small classes, an ideal universally sought for but rarely realized.* These features may perhaps be justly regarded as the most important educational advantages of a course at Clark.

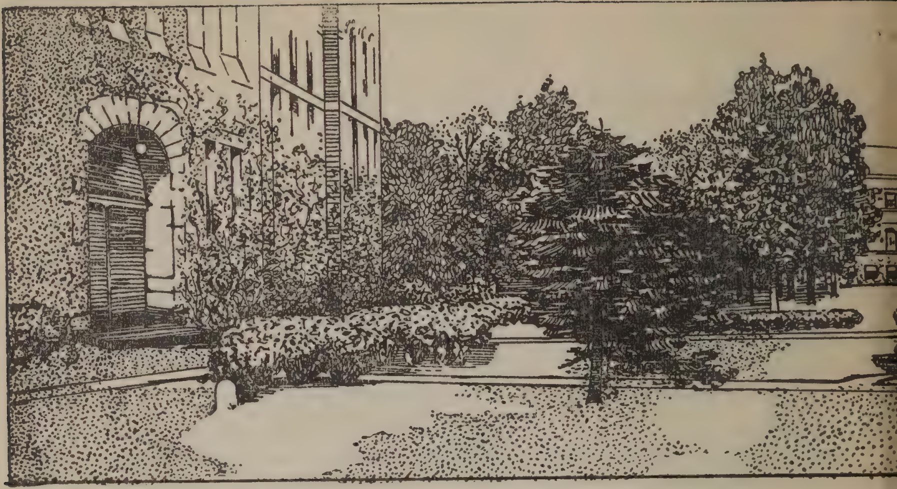
Courses of Study

In the Undergraduate Division the range of courses is similar to that offered in any first class college. Instruction is given in the following thirteen departments:

A. Division of Science
I Mathematics, II Physics, III Chemistry, IV Biology,
V Geology

B. Division of Social Science and Psychology
VI History and International Relations, VII Economics
and Sociology, VIII Psychology (including Education)
IX Geography (including Meteorology)

C. Division of Languages and Literature
X English, XI German, XII Romance Languages
XIII Ancient Languages

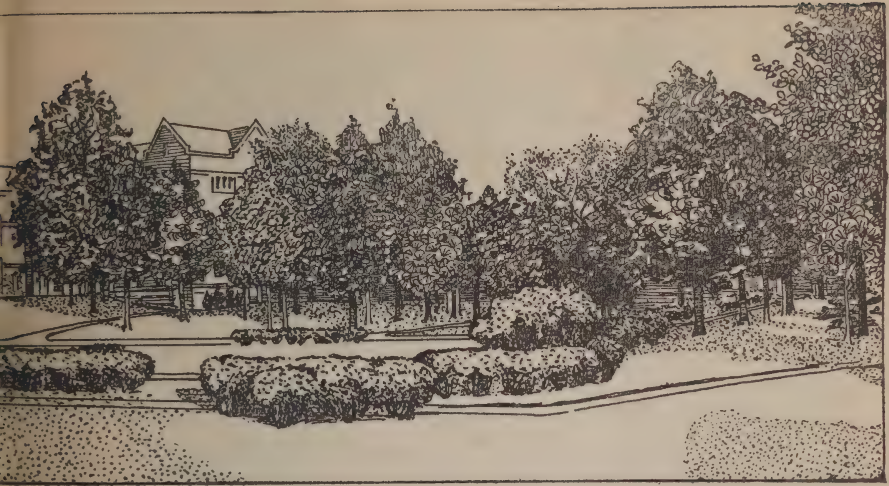


THE

It will be noticed that no pre-professional courses, as such, are offered. Nevertheless, as in other Liberal Arts colleges, far more than the prescribed amount of pre-dental, pre-law, or pre-medical training may be secured while meeting the normal requirements for graduation. No student, however, should come to Clark expecting to fulfill the requirements for medical school in less than three years. Work in education up to eighteen semester hours can be obtained, which meets the requirements of most state boards of education.

The freshman program is largely fixed as it must include English, a Foreign Language, a course in the Division of Social Science and Psychology, and one in either Biology, Chemistry, Physics, or Mathematics. A semester course in the Fine Arts must be elected in either Freshman or Sophomore year.

At the end of the freshman year a student is expected to indicate in which department he intends to *major* and to select a *minor* in a closely related field. Too early specialization is



AMPUS

prevented by required work in English, Foreign Languages, Laboratory Science, and Social Science and Psychology. These requirements, however, may be largely completed by the end of the sophomore year, *leaving much of the last two years free for Study in fields of special interest.*

Clark desires the superior student to develop initiative as early as possible and to this end those who average in the upper quarter of their classes are allowed during the junior and senior years to do independent work, not to exceed three hours each semester, under special supervision in place of regular classroom work. In this manner the transition to the graduate attitude of mind is encouraged. This, together with the fact that an undergraduate whose scholastic record is good may continue his training in the Graduate Division at small cost, leads many Clark men into advanced study.

In addition to the courses leading to the degree of Bachelor of Arts, Clark offers graduate work leading to the degree of Doctor of Philosophy in Chemistry, Economics and Sociology, Geography, History and International Relations, Physics, Physiology, and Psychology. These departments, and Biology as well, also offer work leading to the Master of Arts degree. No attempt is made, however, to rival the large universities in the range of studies covered, but rather to do excellent work in a few departments. The Graduate School of Geography is performing a service unique in this part of the United States. The Summer School and the Extension Division, emphasizing particularly work in Economics, Geography, and History, offer courses leading to the degree of Bachelor of Education.

Admission

The requirements for admission to the Undergraduate Division of Clark University without conditions are first, graduation from a high school of good standing; second, *presentation of fifteen acceptable units of certified work;* third, evidence of good moral character. Students who present thirteen or fourteen units of certified work may be admitted on condition. Conditions are removed on evidence of ability to do satisfactory college work. Those who cannot present thirteen certified units for admission may qualify for admission by passing the examinations of the College Entrance Examinations Board. Information concerning the Board may be obtained by addressing 431 West 117 Street, New York City. Applications and fees must be forwarded to the Board by about the middle of May. By special consent the September examinations furnished by the Board may be taken at the college. The University stands ready to consider on their merits the cases of more mature individuals whose education has been irregular or delayed through reasons beyond their control. Women are admitted to the Graduate Division, to Summer School and to Extension Courses.

Clark is a member of the New England College Entrance Certificate Board and all New England principals certifying to Clark assume responsibility to that Board.

Graduation

To obtain the degree of Bachelor of Arts a student is required to complete satisfactorily a total of 120 semester hours exclusive of Physical Training; that is, the equivalent of five three-hour courses each semester for four years. *No student's work is regarded as satisfactory and entitling him to graduation unless he ranks above the lowest quarter of those passing in at least three-fifths of his courses.*

Students of ability are encouraged to finish the course in the shortest time consistent with good scholastic accomplishment. In furtherance of this a freshman is allowed to elect six courses on entrance and to continue with six as long as he averages in the upper half of his courses. A system of credit bonuses encourages high grade work.

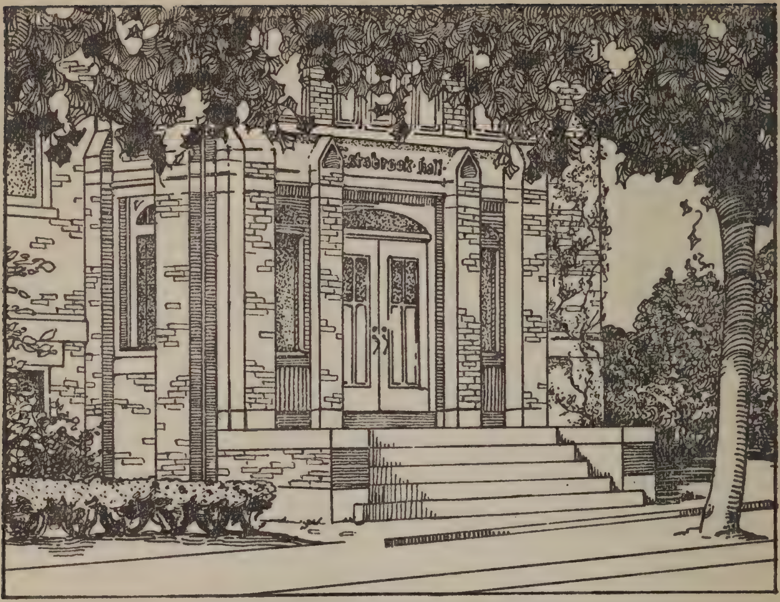
It is only fair to say that most students find five courses amply sufficient, particularly if they are interested in any extra-ar curricul~~um~~ activity.

Tuition, Room, and Board

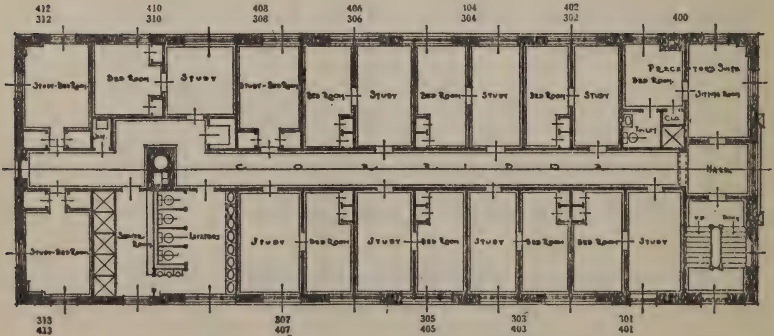
Although the cost to the University per student, graduate and undergraduate together, is about $750.00 a year the expense of tuition at Clark is kept at the relatively low figure of $100.00 a semester, including $10.00 for the support of various student activities. Tuition is kept so low because of the express desire of the founder that his generous endowment should be used to make an excellent college education available, so far as possible, to all deserving young men. At the request of the students and by direction of the Trustees, the Bursar collects $5.00 additional each semester for the further support of student activities.

Other expenses are a $5.00 matriculation fee and laboratory fees of $5.00 a semester for science courses. The cost of books will approximate $20.00 a year.

Undergraduates from out-of-town must board at Estabrook Hall and freshmen from out-of-town must room there. Board


Estabrook hall

ENTRANCE TO ESTABROOK HALL, THE FRESHMAN DORMITORY


412
312
410
310
408
308
406
306
104
304
402
302
400
Study-Bed Room
Bed Room
Study
Study-Bed Room
Bed Room
Study
Bed Room
Study
Bed Room
Study
Preceptors Suite
Bed Room
Sitting Room
Jan.
Toilet
Clo.
Corridor
Hall
Study-Bed Room
Service Room
Lavatory
Study
Bed Room
Study
Bed Room
Study
Bed Room
Bed Room
Study
Up
Down
313
413
307
407
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405
303
403
301
401

ESTABROOK HALL, THIRD FLOOR

The rooms on the fourth floor are arranged like those on the third except that the rooms over the preceptor's suite have no individual bath. Woodland Street extends along the southeast side of the building and Charlotte Street along the northeast side.

is $7.50 per week and room rent $115.00 to $150.00 per year for each occupant. The higher price is for a share of a two-room suite; the lower for a share of a single room. The rooms are furnished with a desk, chair, chiffonier, cot, mattress and pillow for each occupant. A deposit of $25.00 is required as security against possible damage and to cover the cost of lighting. Students wishing to room together should so state, each making his own deposit. Rooms are reserved in order of application when accompanied by the deposit. The sketch on the preceding page shows the arrangement of the rooms.

Scholarships, Student Aid, and Self-Help

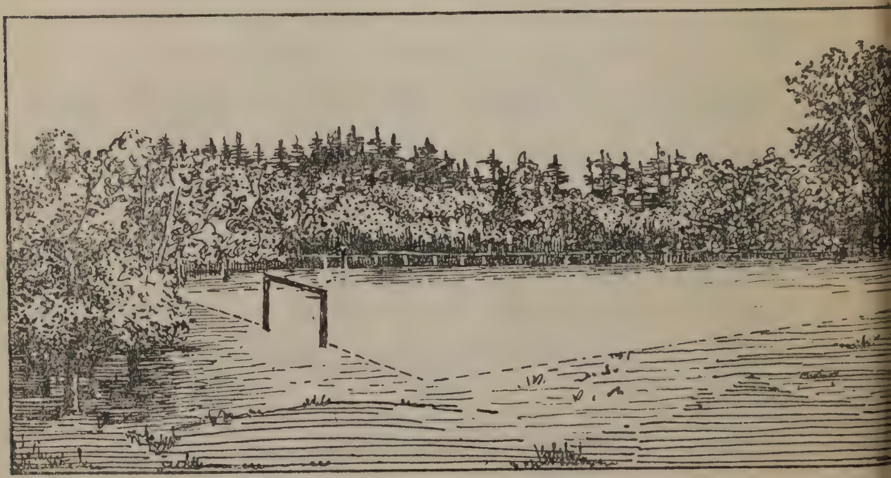
No attempt will be made here to describe the fellowships and scholarships open to graduate students. Information concerning them may be obtained from the Registrar.

For undergraduates fifty Jonas G. Clark Memorial Scholarships, each yielding $100.00, are available for students of high academic standing. Twenty of these are awarded, on application, to entering freshmen who average in the upper quarter of their graduating class. Eight are reserved for candidates from Worcester High Schools and will be awarded preferably two to each of the four schools. Scholarship awards will generally be made early in August and applications must be received prior to that time to ensure consideration. For each of the three upper classes ten scholarships are available. These may be granted to any student whose average rank places him in the upper quarter of his class for the preceding year.

Loan funds are available to allow the continuance in college of deserving students. Under normal conditions spare time employment can usually be found in the city. In view, however, of the time required for the regular work of the College, only the exceptional student should expect to earn more than a limited part of his expenses, and as a general rule at least $500.00 should be at the disposal of any man beginning a college course, unless he can live at home.

College Life Outside the Classroom

Although Clark stands uncompromisingly for the idea that the intellectual life of the institution as developed by reading, study, and in the classroom is the prime object of college and must at all cost be put first, it is believed that by proper planning of his time a student may find abundant opportunity for a reasonable amount of extra-curricul~~um~~ar activity as well; therefore such recreations are encouraged. There are monthly "Bohemians" in Jonas Clark Hall, and two formal "Proms." The College supports a Glee Club and at times an Orchestra, trained by a professional Musical Director, and a Dramatic Association coached by a member of the English Department who takes especial interest in this type of activity. Debating has for a long time been notably successful at Clark, and was for a number of years the only type of intercollegiate activity in which the students engaged. The students publish the *Clark Quarterly*, a magazine which gives opportunity for the publication of their literary productions. A weekly newspaper, *The Clark News*, is now in its seventh year and serves also as a forum for the expression of college opinion. There are four local and



ATH

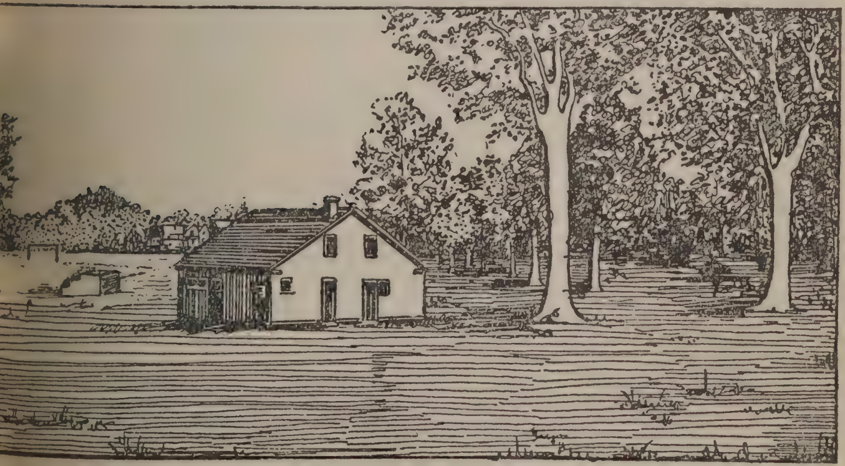
The Field is Approxim

one national Greek letter fraternities, and several special fraternities and organizations.

All undergraduates are entitled to admission to all plays and athletic contests without charge; also to receive the *Quarterly* and the *News*. The expense of these activities is met by fees collected by the University from each student.

Clark has participated in intercollegiate athletics since 1919. Rugby football is not played, but rapid advance has been made in soccer under competent coaching and the same is true of baseball. The new athletic field, already referred to, has added greatly to the pleasure of both contestants and spectators. Basketball is carried on through the winter months.

Because of the small enrollment at Clark, even those of modest athletic attainment may hope by consistent practice to become members of the varsity squads, with all the pleasures that attend such associations. The same is true of non-athletic activities. The result is that many less aggressive young men, who would have been completely submerged in a large institution, have developed at Clark qualities of leadership which they would never otherwise have discovered.



Acres in Area

Officers of Administration and Instruction

WALLACE WALTER ATWOOD, Ph.D. (Chicago)
President
Professor of Physical and Regional Geography and Director of the Graduate School of Geography

HOMER PAYSON LITTLE, Ph.D. (Johns Hopkins)
Dean of the College and Professor of Geology

LOUIS N. WILSON, Litt.D. (Tufts)
Librarian Emeritus

EDITH M. BAKER
Acting Librarian

BENJAMIN SHORES MERIGOLD, Ph.D. (Harvard)
Professor of Chemistry

FRANK BLAIR WILLIAMS, Ph.D. (Clark)
Professor of Mathematics

GEORGE H. BLAKESLEE, Ph.D. (Harvard)
Professor of History and International Relations

CHARLES BREWSTER RANDOLPH, Ph.D. (Harvard)
Professor of German

PHILIP HUDSON CHURCHMAN, Ph.D. (Harvard)
Professor of Romance Languages

HAVEN DARLING BRACKETT, Ph.D. (Harvard)
Professor of Greek and Latin Languages and Literature

LEROY ALLSTON AMES, A.M. (Harvard)
Professor of English Literature

LORING HOLMES DODD, Ph.D. (Yale)
Professor of Rhetoric

ROBERT HUTCHINS GODDARD, Ph.D. (Clark)
Professor of Physics

SAMUEL J. BRANDENBURG, Ph.D. (Wisconsin)
Professor of Economics and Sociology

CARL MURCHISON, Ph.D. (Johns Hopkins)
Professor of Psychology

WILLIAM HOMER WARREN, Ph.D. (Harvard)
Professor of Organic Chemistry

WALTER S. HUNTER, Ph.D. (Chicago)
G. Stanley Hall Professor of Genetic Psychology

DOUGLAS CLAY RIDGLEY, Ph.D. (Clark)
Professor of Geography in Education

CLARENCE FIELDEN JONES, Ph.D. (Chicago)
Professor of Economic Geography

WALTER ELMER EKBLAW, Ph.D. (Clark)
Professor of Agricultural Geography

HUDSON HOAGLAND, Ph.D. (Harvard)
Professor of Physiology

CAREY EYSTER MELVILLE, A.B. (Northwestern)
Associate Professor of Mathematics ~~and Registrar~~

VERNON JONES, Ph.D. (Columbia Teachers')
Associate Professor of Educational Psychology

JAMES ACKLEY MAXWELL, Ph.D. (Harvard)
Associate Professor of Economics

ARTHUR FLETCHER LUCAS, Ph.D. (Princeton)
Associate Professor of Economics

DWIGHT E. LEE, Ph.D. (Harvard)
Associate Professor of Modern European History

PERCY M. ROOPE, Ph.D. (Clark)
Associate Professor of Physics

HENRY DONALDSON JORDAN, Ph.D. (Harvard)
Associate Professor of English History

ROBERT STANLEY ILLINGWORTH, A.M. (Lafayette)
Associate Professor of English

HEINRICH BOSSHARD, Ph.D (Zürich)
Associate Professor of German

JESSE LUNT BULLOCK, Ph.D. (Harvard)
Associate Professor of Chemistry

DAVID POTTER, Ph.D. (Harvard)
Associate Professor of Biology

SAMUEL VAN VALKENBURG, Ph.D. (Zürich)
Associate Professor of Climatology and Regional Geography

GEORGE ELISHA BAKER, A.M. (Harvard)
Assistant Professor of English

PAUL W. SHANKWEILER, A.M. (Columbia)
Assistant Professor of Sociology

DAVID MITCHELL DOUGHERTY, Ph.D. (Harvard)
Assistant Professor of Romance Languages

CLARENCE HENRY GRAHAM, Ph.D. (Clark)
Assistant Professor of Psychology

WALLACE RICHARDS ATWOOD, Ph.D. (Clark)
Assistant Professor of Physiography and Regional Geography

RAY ALLEN BILLINGTON, A.M. (Michigan)
Instructor in American History

CHARLES MARC POMERAT
Assistant in Biology

GUY HARVEY BURNHAM, A.M. (Clark)
Cartographer, Graduate School of Geography

ERNEST RAYMOND WHITMAN
Director of Physical Educaiton

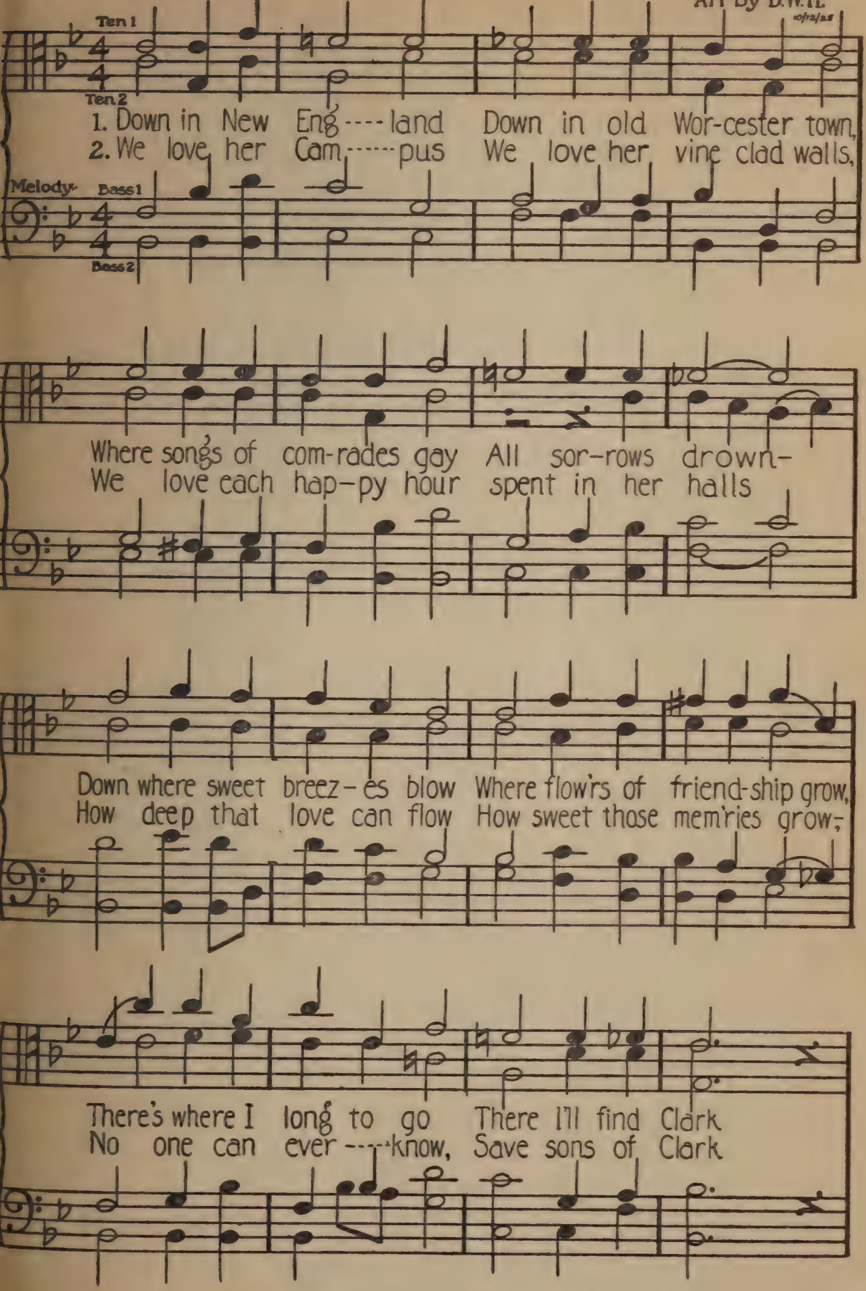
RALPH WARNER ELLIS, M.D. (Harvard)
Medical Director

DEAN WINSLOW HANSCOM, A.B. (Harvard)
Director of Glee Club

Words by
E. Leonard "23"

SONS of CLARK

Music by
Chas. Metcalf "22"
Arr by D.W.H.


10/12/21
Ten 1
Ten 2
Melody
Bass 1
Bass 2
1. Down in New Eng - - - - land Down in old Wor-cester town,
2. We love her Cam - - - - - pus We love her vine clad walls,
Where songs of com-rades gay All sor-rows drown-
We love each hap-py hour spent in her halls
Down where sweet breez-es blow Where flow'rs of friend-ship grow,
How deep that love can flow How sweet those mem'ries grow;
There's where I long to go There I'll find Clark
No one can ever - - - know, Save sons of Clark

FOR FURTHER INFORMATION
ADDRESS

The Dean, Clark University
Worcester, Massachusetts

Clark University Bulletin

Catalogue Number

Worcester, Massachusetts

January, 1933

Clark University Bulletin

NUMBER 99 JANUARY, 1933

Catalogue Number

The Catalogue is a record for the current academic year, 1932–33. Such announcements for the year 1933–34 as can be made at the time of publication are included.

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Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in section 1103, Act of October 3, 1917 authorized January 24, 1921.

HISTORICAL NOTE

Clark University owes its existence to the interest in higher education of Jonas Gilman Clark, who was born at Hubbardston, Worcester County, Massachusetts, February 1, 1815. Conscious of the meagerness of his own early educational opportunities, he devoted his later years to the establishment and nurture of the institution which bears his name. In this he was ably assisted by his wife, Susan W. Clark, and by prominent citizens of Worcester. Mr. Clark died at Worcester on May 23, 1900.

The charter of the University was granted by the General Court of Massachusetts in 1887. The Graduate Division, with Granville Stanley Hall as president, received its first students in 1889. Special provision was made in Mr. Clark's will for the establishment of an Undergraduate Division with its own president but under the same general control as the Graduate Division. Carroll Davidson Wright was chosen president of the Undergraduate Division and students were first received in October, 1902. After the death of President Wright in 1909, Edmund Clark Sanford, then Professor of Psychology in the Graduate Division, was chosen as President of the college.

In June, 1920, Presidents Hall and Sanford resigned and Wallace Walter Atwood was elected to the presidency of both the Graduate and the Undergraduate Divisions of the University.

During the academic year 1920–21 the two faculties continued their separate organizations while plans for unification were being worked out. These plans, approved by the Board of Trustees, went into effect in 1921–22 and provided for the fusion of the two faculties into a single body.

With the election of President Atwood, provision was made for the establishment of a Graduate School of Geography, and work in that school was begun in the fall of 1921.

A Summer School with a six weeks' session has been conducted each year, beginning in 1921.

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CALENDAR

The academic year begins on the Tuesday before the fourth Thursday in September. Commencement Day is the thirty-seventh Monday following (the first or second Monday in June).

The first semester ends on the Saturday before the nineteenth Monday and the second semester begins on the nineteenth Monday of the academic year.

1932

Sept. 20	Tuesday	Academic year began.
Oct. 12	Monday	Columbus Day. Not a holiday.
Nov. 11	Friday	Armistice Day. Not a holiday.
Nov. 19	Saturday	Mid-semester reports.
Nov. 24	Thursday	Thanksgiving Day. A holiday.
Dec. 21	Wednesday	Christmas recess began at 6 P. M.

1933

Jan. 5	Thursday	Christmas recess ended at 8 A. M.
Jan. 16	Monday	Semester examinations begin.
Jan. 16, 17, and 18		Registration days for second semester.
Jan. 28	Saturday	End of first semester.
Jan. 30	Monday	Second semester begins.
Feb. 1	Wednesday	Founder's Day. Not a holiday.
Feb. 4	Saturday	Last day for changes in undergraduate programs. Last day for receiving applications for admission to candidacy for the degree of Master of Arts in June, 1933.
Feb. 8	Wednesday	Last day for payment of term bills.
Feb. 22	Wednesday	Washington's Birthday. A holiday.
Feb. 28	Tuesday	Last day for receiving applications for graduate scholarships and fellowships for 1933–34.
Mar. 25	Saturday	Mid-semester reports.
Apr. 1	Saturday	Spring recess begins at 1 P. M.
Apr. 10	Monday	Spring recess ends at 8 A. M.
May 22	Monday	Semester examinations begin.
May 30	Tuesday	Memorial Day. A holiday.
June 1	Thursday	Last day of semester examinations.
June 2	Friday	Dissertations and theses for the Ph.D. and M.A. degrees are due at the office of the Recorder at 9 A. M.
June 5	Monday	Commencement Day.
July 3	Monday	Summer School opens. Registration day.
July 8	Saturday	Last day for payment of Summer School tuition.
Aug. 10	Thursday	Final Assembly of the Summer School at 8 P. M. Conferring of degrees.
Aug. 11	Friday	Summer School closes.
Sept. 26	Tuesday	Academic year begins. Registration day.
Oct. 3	Tuesday	Last day for changes in undergraduate programs.

Oct. 7	Saturday	Last day for payment of term bills.
Oct. 12	Thursday	Columbus Day. Not a holiday.
Oct. 31	Tuesday	Last day for receiving applications for admission to candidacy for the degree of Doctor of Philosophy in June, 1934.
Nov. 11	Saturday	Armistice Day. Not a holiday.
Nov. 25	Saturday	Mid-semester reports.
Nov. 30	Thursday	Thanksgiving Day. A holiday.
Dec. 20	Wednesday	Christmas recess begins at 6 P. M.

1934

Jan. 4	Thursday	Christmas recess ends at 8 A. M.
Jan. 22	Monday	Semester examinations begin.
Jan. 22, 23, and 24		Registration days for second semester.
Feb. 1	Thursday	Founder's Day. Not a holiday.
Feb. 3	Saturday	End of first semester. Last day for receiving applications for undergraduate scholarships for the second semester.
Feb. 5	Monday	Second semester begins.
Feb. 10	Saturday	Last day for changes in undergraduate programs. Last day for receiving applications for admission to candidacy for the degree of Master of Arts in June, 1934.
Feb. 14	Wednesday	Last day for payment of term bills.
Feb. 22	Thursday	Washington's Birthday. A holiday.
Feb. 28	Wednesday	Last day for receiving applications for graduate scholarships and fellowships for 1934–35.
Mar. 31	Saturday	Spring recess begins at 1 P. M. Mid-semester reports.
Apr. 9	Monday	Spring recess ends at 8 A. M.
May 28	Monday	Semester examinations begin.
May 30	Wednesday	Memorial Day. A holiday.
June 7	Thursday	Last day of semester examinations.
June 8	Friday	Dissertations and theses for the Ph.D. and M.A. degrees are due at the office of the Recorder at 9 A. M.
June 11	Monday	Commencement Day.

BOARD OF TRUSTEES

Francis H. Dewey (1904)	Vice President and Treasurer Worcester, Mass.
Herbert Parker (1907)	South Lancaster, Mass.
Arthur P. Rugg (1910)	Worcester, Mass.
Charles H. Thurber (1913), President	Boston, Mass.
George H. Mirick (1920), Secretary	Worcester, Mass.
Frederic B. Washburn (1925)	Worcester, Mass.
Alexander H. Bullock (1926)	Worcester, Mass.
Leon E. Felton (1930)	Worcester, Mass.

Final authority in all matters pertaining to the University is lodged in the Board of Trustees by charter granted by the General Court of the Commonwealth of Massachusetts.

ADMINISTRATIVE OFFICERS

President of the University and Director of the Graduate School of Geography	W. W. Atwood, Sr.
Acting Librarian	Edith M. Baker
Dean of the College	H. P. Little
Director of the Summer School	D. C. Ridgley
Director of Extension Courses	P. H. Churchman
Director of the Home Study Department	D. C. Ridgley
Recorder	Lydia P. Colby
Bursar	Florence Chandler

UNIVERSITY STAFF

THE UNIVERSITY FACULTY

(Listed in order of academic seniority within each rank.)

WALLACE WALTER ATWOOD, PH.D. 160 Woodland St.
President, Professor of Physical and Regional Geography, and Director of the Graduate School of Geography.

LOUIS N. WILSON, LITT.D. 11 Shirley St.
Librarian 1889–1929. Librarian Emeritus.

HENRY TABER, PH.D. 2 Pleasant Place
Professor of Mathematics, 1903–21. Professor Emeritus.

WILLIAM HENRY BURNHAM, PH.D. Bancroft Hotel
Professor of Education and School Hygiene, 1906–26. Professor Emeritus.

BENJAMIN SHORES MERIGOLD, PH.D. 17 Charlotte St.
Professor of Chemistry and Director of the Chemical Laboratories.

× FRANK BLAIR WILLIAMS, PH.D. 24 Loudon St.
Professor of Mathematics.

GEORGE HUBBARD BLAKESLEE, PH.D., L.H.D. 21 Downing St.
Professor of History and International Relations.

* CHARLES BREWSTER RANDOLPH, PH.D. 10 Otsego Rd.
Professor of German.

PHILIP HUDSON CHURCHMAN, PH.D. 20 Institute Rd.
Professor of Romance Languages and Director of Extension Courses.

HAVEN DARLING BRACKETT, PH.D. 114 Woodland St.
Professor of Greek and Latin.

LEROY ALLSTON AMES, A.M. 166 Woodland St.
Professor of English Literature.

LORING HOLMES DODD, PH.D. 88 Sagamore Rd.
Professor of Rhetoric.

ROBERT HUTCHINS GODDARD, PH.D. 1 Talawanda Dr.
Professor of Physics and Director of the Physical Laboratories.

× Died March 7, 1933.
* Died November 7, 1933.

Homer Payson Little, Ph.D. 156 Woodland St.
Professor of Geology and Dean of the College.

Samuel J. Brandenburg, Ph.D. 173 Woodland St.
Professor of Economics and Sociology.

Carl Murchison, Ph.D., Sc.D. 11 Downing St.
Professor of Psychology, Director of the Psychological Laboratories and Director of the Clark University Press.

William Homer Warren, Ph.D. 166 Woodland St.
Professor of Organic Chemistry.

Walter Samuel Hunter, Ph.D. 171 Woodland St.
G. Stanley Hall Professor of Genetic Psychology.

Douglas Clay Ridgley, Ph.D. 166 Woodland St.
Professor of Geography in Education, Director of the Summer School and Director of the Home Study Department.

Clarence Fielden Jones, Ph.D. 193 Lovell St.
Professor of Economic Geography.

Walter Elmer Ekblaw, Ph.D. 207 Pleasant St., Leicester, Mass.
Professor of Geography.

Hudson Hoagland, Ph.D. 150 Woodland St.
Professor of Physiology and Director of the Biological Laboratories.

Carey Eyster Melville, A.B. 16 Isabella St.
Associate Professor of Mathematics.

Vernon Jones, Ph.D. 6 Ripley St.
Associate Professor of Educational Psychology.

James Ackley Maxwell, Ph.D. 23 Freeland St.
Associate Professor of Economics.

Arthur Fletcher Lucas, Ph.D. 16 Stoneland Rd.
Associate Professor of Economics and Sociology.

Dwight Erwin Lee, Ph.D. 37 Clifton St.
Associate Professor of Modern European History.

Percy Martin Roope, Ph.D. 8 Virginia Rd.
Associate Professor of Physics.

Henry Donaldson Jordan, Ph.D. — 20 Loudon St.
Associate Professor of English History.

Robert Stanley Illingworth, A.M. — 209 Lovell St.
Associate Professor of English.

Samuel Van Valkenburg, Ph.D. — 10 South Flagg St.
Associate Professor of Climatology and Regional Geography.

Jesse Lunt Bullock, Ph.D. — 35 Downing St.
Associate Professor of Chemistry.

Heinrich Morant Bosshard, Ph.D. — 22 Baker St.
Associate Professor of German.

David Potter, Ph.D. — 766 Main St.
Associate Professor of Biology.

George Elisha Baker, A.M. — 114 Woodland St.
Assistant Professor of English.

Paul Walbert Shankweiler, A.M. — 25 Beaver St.
Assistant Professor of Sociology.

David Mitchell Dougherty, Ph.D. — 9 Baker St.
Assistant Professor of Romance Languages.

Clarence Henry Graham, Ph.D. — 166 Woodland St.
Assistant Professor of Psychology.

Wallace Walter Atwood, Jr., Ph.D. — 88 Morningside Rd.
Assistant Professor of Physiography and Regional Geography.

Ray Allen Billington, A.M. — 38 Whitman Rd.
Instructor in History.

OTHER MEMBERS OF THE STAFF

Curtis F. Marbut, LL.D.
Special Lecturer in Geography.

Raymond Royce Willoughby, Ph.D. — 14 Reed St.
Research Associate in Psychology.

Guy H. Burnham, A.M. — 19 Woodman Rd.
Cartographer, Graduate School of Geography.

ERNEST RAYMOND WHITMAN 48 Downing St.
Director of Physical Education.

RALPH WARNER ELLIS, M.D. 574 Main St.
Medical Director.

FLORENCE CHANDLER 18 Downing St.
Bursar.

LYDIA P. COLBY 276 Highland St.
Recorder.

DEAN WINSLOW HANSCOM, A.B. Waban, Mass.
Director of the Musical Clubs.

JOHN W. BOARDMAN 15 Shirley St.
Superintendent of Buildings and Grounds.

STUDENT ASSISTANTS

Biology

EVERT J. LARSON, A.B.
CHARLES M. POMERAT, A.B.

Chemistry

MILAN A. CHAPIN, B.S.
GUY S. HERRICK, A.M.
AXEL V. HOLMGREN, A.B.
KARL C. WHITEHOUSE, A.B.

Economics and Sociology

ARTHUR T. SUTHERLAND, A.B.

Geology

STANLEY G. TURNER

History and International Relations

VICTOR R. EDMAN, A.M.
GEORGE S. MCPHERSON, A.B.

Physics

ALBERT C. ERICKSON, A.M.

Physical Training

HOWARD G. WHITMAN

Psychology

ROBERT J. BEITEL, A.B.
EDWARD H. KEMP, A.B.
CLAUDE C. NEET, A.M.

GOVERNING BOARDS AND COMMITTEES

THE UNIVERSITY FACULTY

The Faculty consists of the President, the Librarian, and all members of the staff giving regular courses of instruction. It has immediate supervision over the general educational work of the University and is responsible for the nomination to the Board of Trustees of candidates for baccalaureate degrees and for honorary degrees.

Secretary of the Faculty, Charles B. Randolph.

THE UNIVERSITY SENATE

An advisory board appointed by the President
President Wallace W. Atwood, *ex officio*
George H. Blakeslee
Samuel J. Brandenburg
Philip H. Churchman
Loring H. Dodd
W. Elmer Ekblaw
Walter S. Hunter
Homer P. Little
Benjamin S. Merigold
Carl Murchison

THE GRADUATE BOARD

The Graduate Board consists of the President and representatives of the departments offering advanced graduate instruction. It has general control of the work of the Graduate Division of the University and is responsible for the nomination to the Board of Trustees of candidates for the degrees of Master of Arts and of Doctor of Philosophy.

President Wallace W. Atwood, *ex officio*
George H. Blakeslee
Samuel J. Brandenburg
W. Elmer Ekblaw
Robert H. Goddard
Hudson Hoagland
Walter S. Hunter
H. Donaldson Jordan
Dwight E. Lee
James A. Maxwell
Benjamin S. Merigold
Carl Murchison
William H. Warren
Clarence F. Jones, *Secretary*

THE COLLEGE BOARD

The College Board consists of the President, the Dean of the College, and six members of the Faculty, appointed by the President. It has immediate supervision over the work of the Undergraduate Division, subject to the control of the Faculty, and recommends to the Faculty candidates for the degree of Bachelor of Arts.

President Wallace W. Atwood } *ex officio*
College Dean Homer P. Little }

Jesse L. Bullock	David Potter
Vernon Jones	Douglas C. Ridgley
James A. Maxwell	Percy M. Roope

Carey E. Melville, *Secretary*

THE COMMITTEE ON EXTENSION COURSES AND SPECIAL STUDENTS

The Committee exercises general supervision over "courses of college grade for adults" and over special students including candidates for the degree of Bachelor of Education, and recommends to the Faculty candidates for this degree.

President Wallace W. Atwood, *ex officio*
Philip H. Churchman, *Chairman*

Samuel J. Brandenburg	Homer P. Little
Vernon Jones	Douglas C. Ridgley

Carey E. Melville, *Secretary*

THE COMMITTEE ON THE SUMMER SCHOOL

President Wallace W. Atwood, *ex officio*
Director of the Summer School, Douglas C. Ridgley

George H. Blakeslee	Carey E. Melville

Samuel J. Brandenburg

THE COMMITTEE ON PERSONNEL AND ORGANIZATION

Elected annually to advise the President regarding the personnel and the organization of departments.

George H. Blakeslee	Homer P. Little
Samuel J. Brandenburg	Carey E. Melville

Benjamin S. Merigold

THE COMMITTEE ON COURSES IN EDUCATION

A standing committee of the Faculty on which is placed the responsibility of providing, in coöperation with the several departments, courses in Education in sufficient number and variety to enable graduates of the College to meet the current requirements of the near-by states for positions in the public school systems.

President Wallace W. Atwood, *ex officio*
Vernon Jones, *Chairman*
Philip H. Churchman Robert S. Illingworth
Douglas C. Ridgley

STANDING COMMITTEES OF THE GRADUATE BOARD

THE COMMITTEE ON CREDENTIALS

The committee passes upon applications for admission to the graduate division and makes recommendations to the Graduate Board in respect to fellowships and scholarships and candidacy for graduate degrees.

President Wallace W. Atwood, *ex officio*
Clarence F. Jones, *Chairman-Secretary*
George H. Blakeslee Samuel J. Brandenburg
Carl Murchison

THE COMMITTEE ON PROFICIENCY IN FOREIGN LANGUAGES

The committee examines candidates for the degree of Doctor of Philosophy for proficiency in foreign languages.

President Wallace W. Atwood, *ex officio*
Philip H. Churchman, Professor of Romance Languages
Charles B. Randolph, Professor of German
A representative of the student's major department.

STANDING COMMITTEES OF THE COLLEGE BOARD

THE COMMITTEE ON ADMISSIONS

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Dean Homer P. Little, *Chairman* }
Samuel J. Brandenburg Carey E. Melville
Robert S. Illingworth Benjamin S. Merigold

THE COMMITTEE ON CURRICULUM

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Dean Homer P. Little }
Philip H. Churchman, *Chairman*
Leroy A. Ames Dwight E. Lee

THE COMMITTEE ON ATHLETICS

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Dean Homer P. Little } *ex officio*
James A. Maxwell
David Potter
Ernest R. Whitman
Frank B. Williams

THE COMMITTEE ON AUTHORIZED EXCURSIONS

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Dean Homer P. Little } *ex officio*
Carey E. Melville

COMMITTEE ON STUDENT FINANCE

President Wallace W. Atwood }
Dean Homer P. Little } *ex officio*
Charles B. Randolph, *Chairman*
James A. Maxwell
Ernest R. Whitman
Frank B. Williams

COMMITTEE ON THE STUDENT ACTIVITIES FUND

Guy H. Burnham, *Chairman*
Dwight E. Lee
Ernest R. Whitman

COMMITTEE ON SOCIAL AFFAIRS

President Wallace W. Atwood }
Dean Homer P. Little } *ex officio*
Jesse L. Bullock, *Chairman*
Charles B. Randolph
William H. Warren

COMMITTEE ON FRATERNITIES

President Wallace W. Atwood }
Dean Homer P. Little } *ex officio*
Frank B. Williams, *Chairman*
Dwight E. Lee
Arthur F. Lucas

COMMITTEE ON PUBLICATIONS

President Wallace W. Atwood }
Dean Homer P. Little } *ex officio*
Leroy A. Ames, *Chairman*
Heinrich Bosshard
Percy M. Roope

THE UNIVERSITY

THE LOCATION

Clark University is located in Worcester, Massachusetts, an industrial and educational center with a population of about two hundred thousand. It is distant about forty miles from Boston and from Providence, and about two hundred miles from New York City.

Situated at the eastern border of the Central Massachusetts upland at an altitude of nearly six hundred feet above sea level, excessive humidity is seldom experienced and the climate is bracing.

GROUNDS AND BUILDINGS

The university campus is a tract of about eight acres bounded by Main, Woodland, Maywood, and Downing Streets, about a mile and a quarter from the City Hall. Here the principal buildings are located. Besides this tract, the institution owns the athletic grounds between Maywood and Beaver Streets, where the tennis courts are located, the athletic field of about six acres at the corner of Park Avenue and Beaver Street, about five minutes' walk from the University, the land on the corner of Woodland and Charlotte Streets, where Estabrook Hall is located, the adjacent Fanning estate and other property opposite the campus on Woodland Street, the Hadwen Arboretum on Lovell Street, and several other dwellings occupied by members of the staff. The residences of the President and of the Dean of the College are on Woodland Street, opposite the campus.

ORGANIZATION

The UNIVERSITY includes:

THE UNDERGRADUATE DIVISION offering a general college course leading to the degree of Bachelor of Arts.

THE GRADUATE DIVISION offering advanced instruction leading to the degrees of Master of Arts and of Doctor of Philosophy.

THE GRADUATE SCHOOL OF GEOGRAPHY offering special training leading to higher degrees in geography.

THE SUMMER SCHOOL offering both undergraduate and graduate instruction with special reference to candidates for the degree of Bachelor of Education.

The Extension Division offering courses at the University in the late afternoon, evenings, and on Saturday, with special reference to the needs of candidates for the degree of Bachelor of Education.

The Library with its separate endowment, offering unusual opportunities for study and research.

The Clark University Press is associated with the University under the direction of a Board of Governors appointed by the Trustees of the University. It is not a service department of the University, but a self-supporting enterprise engaged in the publication of scientific books and journals.

The Departments at present offering courses of study are:

1. Ancient Languages and Literatures
2. Biology
3. Chemistry
4. Economics and Sociology
5. English Language and Literature
6. Geography
7. Geology
8. German Language and Literature
9. History and International Relations
10. Mathematics
11. Physics
12. Psychology and Education
13. Romance Languages and Literatures

THE ACADEMIC YEAR

The academic year begins on the Tuesday before the fourth Thursday in September, and Commencement Day is the thirty-seventh Monday following (first or second Monday in June). The first semester ends on the Saturday before the nineteenth Monday, and the second semester begins on the nineteenth Monday of the academic year. There are two recesses during the college year: two weeks including Christmas and New Year's Day; and the first full week in April. University exercises are suspended also on Thanksgiving Day, Washington's Birthday, and Memorial Day.

The Summer School begins on a Monday near the first of July and continues in session for six weeks.

Students are expected to be present on the first day of each term and to continue in attendance from day to day to the end of the term.

ADMISSION

Three classes of students are admitted:

1. Undergraduates. For requirements see announcement of the Undergraduate Division.
2. Graduate students. For requirements see announcement of the Graduate Division.
3. Special students. (a) Mature persons, not candidates for a degree, who wish to take advantage of the opportunities for study afforded by the University, and who give satisfactory evidence of adequate preparation for the work which they wish to undertake. (b) Students who are candidates for the degree of Bachelor of Education. For requirements see announcement of the Bachelor of Education degree.

Requests for information and for application forms should be addressed to the OFFICE OF THE UNIVERSITY, 950 MAIN STREET, WORCESTER, MASSACHUSETTS.

REGISTRATION

The first day of the academic year and of the summer session is devoted to the registration of programs of study. Registration for the second semester is required not later than the eleventh day (Wednesday) before the beginning of the semester.

Failure to register at the time designated is penalized, in the case of undergraduates, by a fine of one dollar for each day's delay up to a maximum of five dollars.

TUITION AND FEES

TUITION

The tuition, undergraduate and graduate, is $200 per year. In addition to the tuition the University collects from each undergraduate five dollars each semester for the support of "student activities." Students carrying small programs in regular courses are charged at the rate of $20 for each "hour" weekly through the year up to a maximum of $200.00. Tuition is payable in two equal installments, due at the beginning of each semester. If the tuition is not paid within ten days after it is due the enrollment of the student lapses. A student whose enrollment has lapsed for non-payment of tuition may be re-enrolled, with permission of the proper administrative officer on payment of the overdue tuition with an additional fee of $2.

Tuition in the Summer School is $20 for a single course and $35 for two or more courses. Tuition may be paid at any time before the opening of the Summer School, and must be paid by noon of the first Saturday of the term.

Tuition in special courses for teachers (courses of college grade for adults) is $8.00 for a course meeting one hour per week for one semester and $15 for a course meeting two hours a week for one semester.

The following regulation was accepted by the Trustees at a meeting held March 28, 1931.

"*No refund of tuition and no release of obligation to pay tuition shall be made because of failure for any reason on the part of a student to complete the work of any semester after it is begun.*"

MATRICULATION FEE

A matriculation fee of $5.00 is required of all students formally enrolled in Clark University. This is paid but once, and permits a student to return successive years, or after a period of absence, without any further charge for matriculation. This fee is paid also by students who register for the Summer School.

Students enrolled in home study courses and "auditors" are not required to matriculate.

Official statements of record are issued by the Recorder of the University for matriculated students only.

LABORATORY FEES AND DEPOSITS

Laboratory fees are charged at the rate of $5.00 each semester for undergraduate laboratory courses.

A deposit of $10 for each course, to cover breakage, is required of students taking undergraduate laboratory work in chemistry. The department notifies the Bursar at the end of the year of the total charges against the student for breakage, and any balance remaining is returned. If the deposit is not sufficient to cover the breakage charges, any excess is collected by the Bursar.

Graduate students taking undergraduate courses pay the same fees and deposits as undergraduates.

A deposit of $25 is required of each graduate student in the Department of Chemistry, at the beginning of the year. Ordinary supplies and materials are charged to the student's account at cost. Any balance remaining is refunded at the end of the year.

Laboratory fees and deposits for breakage are due at the time of registration for the courses.

PUBLICATION FEES

Publication fees, $10 for the Master of Arts thesis and $15 for the Doctor of Philosophy dissertation, are due when applications for admission to candidacy are filed.

DIPLOMA FEES

Diploma fees are charged according to the following schedule:

For the Bachelor of Arts or the Bachelor of Education diploma, $5.00. These fees are due at the beginning of the second semester of the year in which the candidate expects to receive the degree.

For the Master of Arts diploma, due when applications for admission to candidacy are filed, $10.

For the Doctor of Philosophy diploma, due when applications for admission to candidacy are filed, $25.

DINING HALL AND DORMITORY

Board at the Dining Hall is furnished at a reasonable rate which has varied from year to year. During the current year the charge is $7.50 per week, with *no refunds for absences except in cases of protracted illness.*

Undergraduates who do not live in their own homes are required to board at the Dining Hall.

Estabrook Hall, the undergraduate dormitory completed in 1924, provides accommodations for about fifty students. Two students in a suite of two rooms are charged $150 each; two in one room, $115 each. Dormitory room rent is payable either in advance or one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May. Each student is required to deposit $25 before occupying a room. This deposit is returned, less a charge for lights and any charges for damages to the room or its furnishings, when the key to the room is surrendered to the Bursar.

Freshmen not living in their own homes are required to room in Estabrook Hall.

Rooms are assigned to freshmen in order of application, when the application is accompanied by the deposit of $25. Students who indicate a desire to room together will be accommodated whenever possible. Rooms not required for freshmen may be rented by upper classmen or by graduate students.

The University also has dormitory accommodations for a small number of graduate students.

OTHER EXPENSES

In addition to the fees and other charges enumerated above, students will find that the necessary expenses of living in Worcester are comparable with similar costs in any large city. The total is largely dependent upon the individual's habits and tastes.

Lodgings may be secured in private houses within convenient distance from the campus at a reasonable cost.

The cost of books varies with the programs of study. The University maintains a bookstore which is operated without profit in order to reduce the cost of textbooks and supplies.

FELLOWSHIPS, SCHOLARSHIPS AND LOANS

Fellowships and scholarships for graduate students are available as stated in the announcement of the Graduate Division.

Undergraduate scholarships are available as stated in the announcement of the Undergraduate Division.

Loans and other grants are available from various special funds as listed in the announcements of the Graduate Division and of the Undergraduate Division.

HEALTH AND PHYSICAL TRAINING

The Medical Director, Doctor Ralph W. Ellis, exercises general supervision over matters of health and hygiene in the University. For undergraduates a thorough medical examination is required at the beginning and end of each year.

The Medical Director is available during the academic year for conferences and medical advice. It is intended that his services shall be primarily of a preventive nature. The University does not conduct an infirmary and does not undertake to care for cases of illness requiring medical attention or hospital accommodations, although it will co-operate in every possible way in meeting such emergencies.

The Director of Physical Education has supervision over all required physical training and other athletic activities. In the matter of intercollegiate contests he is assisted by the Committee on Athletics.

The gymnasium is located on the ground floor of Jonas G. Clark Hall. Individual steel lockers and an ample number of shower baths are provided.

THE LIBRARY

Edith M. Baker, *Acting Librarian*
Helen J. Elliot, *Cataloguer*

Assistants

Dorothy M. Dickinson	Emily C. Kelley
Marion Henderson	Edith L. Sawyer

Student Assistants

L. A. Fox	J. B. Reynolds

The Library, under the terms of Mr. Clark's will, received one quarter of his estate for the "support and maintenance of a University Library." Thus the Library is well endowed and is able to provide amply for the needs of all departments. It contains over 142,000 bound volumes and pamphlets, and the readingroom receives about 500 journals.

Particular attention is paid to the needs of students engaged in research work. The Library already possesses a good collection of complete sets of the best scientific periodicals. It makes liberal purchases for individual needs and supplements these by drawing upon the resources of the older and larger libraries through the inter-library loan system. The number of books added each year is about 3,500 volumes.

The books in the Art Department are accessible on application to the Librarian, but, by the terms of the Founder's will, they *cannot* be taken from the building.

All regular privileges of the Library are open to all members of the University.

Tuesday and Friday mornings, each week, all books recently added to the Library are placed upon a table in the reference section, where they remain for three days. This affords the members of the University an opportunity to examine the new books in all departments before they are placed upon the shelves for circulation.

The Library is open from 8 a.m. to 10 p.m. each week day (except on legal holidays), during the regular sessions of the University and during the Summer School session.

ART DEPARTMENT

In his last will and testament the Founder of the University bequeathed

> "the sum of $100,000, as an endowment fund for the Art Department of said University, and said sum is to be held and kept sacred and intact as a principal not to be used or expended under any conditions; but the income, interest or

proceeds thereof shall be used only in putting and keeping said works of art or others given or obtained for said department in good condition and in taking care of them; and then if there is a surplus of the income of said fund, I will and direct that it be used in the purchase of additional works of art or of such matters as will add to the usefulness and efficiency of said Art Department."

Under these conditions a large room has been furnished and equipped on the upper floor of the Library Building. Upon the death of Mrs. Clark, those works of art of the Founder's collection which were deemed most suitable for this purpose were arranged and displayed in this room, together with his most valuable books, which by the conditions of the will cannot be removed from the building. A complete catalogue of these books and paintings has been published in the Publication of the Library, Vol. 2, No. 1.

The most recent addition to the collection is a portrait of Louis N. Wilson, librarian of Clark University from 1889 to 1929, librarian emeritus, 1929–, by Leopold Seyffert of New York.

The Art Department is open daily (except Sundays and holidays) from 9 a.m. to 5 p.m.

THE UNDERGRADUATE DIVISION

"CLARK COLLEGE"

When the College was established in 1902, a three-year course was adopted as the normal one for the baccalaureate degree. This innovation was due to the emphasis placed upon a three-year course in the will of the founder, based on a conviction that properly prepared students could secure in three years, under favorable conditions, a training essentially equivalent to that ordinarily obtained in a four-year college course. Increasing pressure, both for the admission of high school graduates who could not qualify for the three-year course and for a larger development of extra-curricular activities, led ultimately to the abandonment of the original plan. Beginning with the class which entered in September, 1922, a four-year course became the normal one leading to the degree of Bachelor of Arts. The opportunity to complete the course in three years is still open to well prepared and serious students, and a small number avail themselves of this opportunity.

The College has a competent faculty and is well equipped for the work which it undertakes. A general program leading to the degree of Bachelor of Arts is offered. Distinctly vocational or professional programs are not offered.

A complete statement in regard to fees and expenses will be found under the heading TUITION AND FEES.

SCHOLARSHIPS AND STUDENT AID

THE JONAS G. CLARK SCHOLARSHIPS established by the Trustees in January, 1925, provide scholarships of the value of one hundred dollars each to fifty undergraduates. Twenty of these scholarships are reserved for applicants for admission to the freshman class who rank in the upper quarter of their graduating classes in preparatory schools, eight of them being for graduates of the High Schools of Worcester. Of the remaining thirty scholarships, ten are reserved for each of the three upper classes, for students who rank in the upper quarter of each class.

These grants are for the encouragement of high grade scholarship. In conformity with this purpose they are subject to the following conditions: (1) one-half the value of the scholarship is deducted from the term bill of the holder at the beginning of each semester, (2) a scholarship is automatically forfeited for the second semester if the holder fails to maintain a rank in the upper half of his class during the first semester.

The Sanford Memorial Scholarship Fund, provided by the alumni of the University pays the full tuition of some undergraduate. Included in the fund is the class gift to the University of the class of 1918.

The Livermore and Ambulance Scholarship was endowed by citizens of Worcester in honor of Charles Randall Livermore, the first Clark man to fall in battle in the World War, and of his companions in the Clark Unit of Ambulance Drivers. Fifty dollars or more is offered annually, to be awarded on the basis of academic success, character, and usefulness to the College. The scholarship is open to students who are residents of Worcester County.

The Henry A. Willis Fund provides scholarships for students from Fitchburg, Massachusetts, and vicinity. In the absence of suitable candidates from this community grants may be made to others.

The B'nai Brith Scholarship, provided by the Order of B'nai Brith, is primarily but not exclusively for the aid of Jewish students.

The Clark University Faculty Women's Club offers a $100 scholarship to an applicant who ranks high in intellectual and personal qualities. The club is assisted by Alumnae and wives of Alumni. Application should be addressed to The Chairman, Scholarship Committee, Clark University Faculty Women's Club.

Applications for undergraduate scholarships should be filed at an early date on blanks which may be secured at the general office. Awards are made by the College Board.

The Board expressly reserves the right to award fewer than the full number of scholarships in any year if for any reason this may seem advisable.

Aid given in the form of scholarships is not regarded as a loan. It is recognized, however, that those who receive such aid may wish to return the amount in later years. Any sums received from this source will be added to the Alumni Loan Fund of the College.

LOAN FUNDS

The Alumni Loan Fund is a permanent revolving fund established by the Trustees and the Alumni. To this has been added a fund of about $500 contributed by L. Kelly Foster, C. B. L. Kelley, Isadore Lubin, H. M. Smith, and others.

The Estabrook Loan Fund was created by the generosity of the late Arthur F. Estabrook of the Board of Trustees.

Loans from these funds are made to undergraduates by the Dean of the College in cooperation with the Alumni Committee on Loans. Loans are covered by endorsed notes payable at a fixed date and bear interest at the rate of 6 per cent per year.

The Sarah M. Thurber Loan Fund was established through the generosity of Dr. Charles H. Thurber, President of the Board of Trustees, as a memorial to his mother. The fund is administered by the President of the University. Such loans bear interest at the rate of 6 per cent per year.

ADMISSION

Inquiries regarding admission and requests for blank forms should be addressed to the Dean of the College. Application for admission should be made as early as is practicable. *No application received after August 1 can be promised consideration.*

Every admission is an "admission on trial" to the actual work at the College. The University reserves the right to require the withdrawal at any time of any student whose record in either conduct or scholarship fails to meet the expectations implied by his admission.

Application blanks, as well as official transcripts of preparatory school records and certificates of character should be sent directly to the College by the school officials who sign them.

Special students are not admitted to the College. They may be admitted to the University on the recommendation of a department and under the supervision of the Committee on Extension Courses and Special Students.

ADMISSION TO THE FRESHMAN CLASS

In addition to satisfactory references as to character, a four-year high school course or its equivalent, including a total of 15 units of credit in acceptable subjects, is required for admission to the freshman class. A minimum of two units in mathematics is required. A single unit in a foreign language is not accepted. Commercial and industrial subjects may be credited to a total not exceeding three units. The term "unit" is understood to mean approximately one-quarter of a pupil's normal program of work for the school year.

An applicant for admission to the freshman class should supply, on blanks furnished by the college:

1. A signed application for admission which should be forwarded by the principal of the school in which the applicant

has prepared for college, after the "Personality Rating Scale" has been completed by a responsible officer of the school. This application should be filed with the Dean at the earliest practicable date.

2. A complete statement of his preparatory school record. This should be mailed to the Dean by the officer who signs it. (See statement below in regard to certificates.)
3. Records of any entrance examinations which he may have taken and of any action by any other college in respect to admission.

CERTIFICATES

Applicants whose references are satisfactory and who present records from approved schools will be admitted (a) *without conditions* if they offer fifteen certified units of credits in acceptable subjects, or (b) *with one or two conditions* if they offer fourteen or thirteen certified units respectively in acceptable subjects.

Certificates are accepted from schools on the list of the New England College Entrance Certificate Board. Schools located in New England but not on this list may apply for "specimen" certification privileges to the Secretary of the Board, Dean Frank W. Nicolson, Wesleyan University, Middletown, Connecticut.

A certificate from a school not on the list approved by the Board is not valid for admission unless the school lies outside of the jurisdiction of the Board.

ENTRANCE EXAMINATIONS

Applicants who cannot present at least thirteen certified units should arrange in consultation with the Dean of the College to take "College Board" examinations in June. Information concerning these examinations may be obtained from school officers or by addressing the College Entrance Examination Board at 431 West 117th St., New York City. Applications for examinations must be received by the Board before the end of May.

Those who make a satisfactory record in a designated set of examinations may be admitted to the College with or without conditions. The College will determine in each case what constitutes a satisfactory record in the examinations.

A final opportunity for making up entrance deficiencies by examinations is offered at the College immediately before the opening of the academic year in September. These examinations also are provided by the College Entrance Examination Board, and are intended to be supplementary to those held in June. Admission to these examinations is by special permission in each case. A fee of $5.00 is charged by the College for a single examination, with an additional fee of $3.00 for each additional subject.

ADMISSION WITH CONDITIONS

Conditions may be in specified subjects, or may be general, in the latter case indicating some deficiency in the high school course as a whole. All conditions are terminated at the beginning of the sophomore year either by removal in the manner specified below or by additions to the requirements for graduation.

Conditions are removed if at the end of the freshman year the conditioned student has met the normal scholarship requirements for regular standing, namely a rank above the lowest quarter of the class in three-fifths of his courses and no failures. Conditions may also be removed by satisfactory records in "College Board" examinations covering the conditioned subjects in June or September following the freshman year.

Applications for examinations in September, for the removal of conditions, should be filed with the Recorder not later than the first of July preceding the date of the examinations. The fee for examination must be paid when applications are filed.

Each condition not removed at the beginning of the sophomore year will be replaced by an additional requirement for graduation amounting to three semester hours.

ADMISSION TO ADVANCED STANDING

A student who wishes to enter the College after having been enrolled in another institution of college grade is required to submit a letter of honorable dismissal, a complete transcript of his record at the institution last attended and such other information as the Committee on Admissions may request. If he is admitted he will be provisionally assigned to the freshman, sophomore, junior, or senior class and will be permitted to register for a suitable program. He will not be given a final class rating until he has been in residence for at least one semester. After satisfying this requirement he will be given conditional credit for the work done elsewhere to an amount determined by vote of the College Board, on the recommendation of the Recorder and the departments concerned.

The bachelor's degree will not be conferred upon a student who has not spent at least a year in residence at Clark University, and usually not unless the period of residence includes the two semesters immediately preceding the granting of the degree.

FACULTY ADVISERS

When a student is admitted to the College he is assigned to a member of the faculty who will act as his adviser. The adviser will assist the student in making up his program of studies for registration and will be ready at all times to afford him help and counsel, either in regard to problems of college life or other matters. The student should consult with his adviser as soon as possible after the opening of the college year in order to outline his program of studies.

REGISTRATION

Registration days are the first day of the academic year and the first three days of the examination period preceding the second semester. Failure to register on or before these days involves a fine of $1.00 for each day's delay up to a maximum of $5.00.

A student's record of attendance begins with the first day of the semester. No credit for attendance is given until registration is completed. In cases of delayed registration unexcused absences are recorded for all scheduled meetings of courses unless excuses acceptable to the College Board are presented.

During the first week of any semester changes of courses may be made for sufficient reason with the written approval of the student's adviser and the instructors concerned. After the first week of any semester no changes may be made except such as are authorized by special vote of the Faculty or of the College Board.

Freshmen may register for programs of either fifteen or eighteen hours of college work per week in the first semester. In subsequent semesters programs of eighteen or more hours per week are restricted to students whose average rank in all courses for the preceding semester is 50th among 100, or better, except in the case of seniors. A senior whose graduation at the end of the year depends upon the completion of a program of six courses may register for such a program in either semester if his average rank for the preceding semester is 75th among 100, or better.

The election of a *major* and *minor* is required as a part of registration at the beginning of a student's second year in college. This election when once recorded may be changed only with the approval of the Dean. Although the *major* and *minor* are not officially regarded as fixed until the student's second year in college, he should plan his course as definitely as possible from the beginning with his probable choice in view.

STUDENT PROGRAMS

The curriculum is arranged upon a plan which permits considerable freedom of adjustment to individual differences of interest. Each student's program of studies contains two principal subjects (a *major* and a *minor*) together with required courses in English, fine arts, and certain subjects chosen in accordance with rules intended to insure a reasonable distribution of work among the various departments. A large part of each program is made up of courses chosen without restriction.

Regular students normally carry programs which yield a credit of fifteen or sixteen semester hours for each semester, in addition to the required work in physical training. In general it is expected that all courses will require two hours of preparation for each lecture or recitation. Three hours are assigned for each laboratory period.

A student carrying the regular program should expect his college work to require from forty-five to fifty hours of his time per week, in addition to the work in physical training.

Candidates for the bachelor's degree in less than four years will generally carry programs of from eighteen to twenty hours per week and should expect to spend practically their entire time on their college work.

The departments of instruction are grouped in three divisions:

DIVISION A

Biology, Chemistry, Geology, Mathematics, Physics.

DIVISION B

Economics and Sociology, Geography, History and International Relations, Psychology.

DIVISION C

Ancient Languages, English, German, Romance Languages.

Each student elects one of the thirteen departments in which he will complete a *major*, and a related department in which he will complete a *minor*. The choice of *major* and *minor* usually involves certain specific requirements in other subjects. For these and for statements as to what particular courses may be used for a *major* and a *minor* the announcements of the different departments should be consulted.

First year students must make up their programs entirely from courses designated as "Open to Freshmen."

The program for the freshmen year must include:

1. English 11.
2. A course in Foreign Language.
3. A course in Division A.
4. A course in Division B.
5. An elective. (Mathematics 10 or 11 for students intending to major in Division A.)

Second year students should, as a rule, complete the requirement in English, continue work in Foreign Language, and complete the requirements f and g listed under 3 below. A course in appreciation of the fine arts is a requirement for second year students unless they have completed this course with a satisfactory record in the first year. *Any first year requirements which have not been completed must be included in the program of courses for the second year.*

Undergraduates, other than freshmen, may enter any course listed "primarily for undergraduates," for which, in the judgment of the instructor in charge, they are prepared. Seniors and juniors who have completed the published prerequisites are admitted, at the discretion of the instructor in charge, to courses listed "for graduate students and advanced undergraduates." Undergraduates are not admitted to courses "primarily for graduate students" except in rare cases, and then only by special vote of the College Board and the approval of the Secretary of the Graduate Board.

Regular gymnasium exercise is required of all students (with certain exceptions) for the general promotion of their health and mental efficiency. This work is scheduled at times which avoid conflict with recitation hours.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

Students who satisfy all of the following requirements will be recommended for the degree of Bachelor of Arts unless in the judgment of the College Board there is cause for withholding this recommendation.

1. A minimum period of study in residence of three academic years.

2. One hundred and twenty semester hours of credit (in addition to the required work in physical training) with satisfactory scholarship standing.

3. The following requirements in specified subjects and fields of study.

a. A *major* of not less than twenty-four semester hours.

b. A *minor* of not less than eighteen semester hours.

c. A requirement depending on the choice of the *major* subject, six semester hours.

With a major in Division A, the requirement is Mathematics 10 or 11.

With a major in Division B, the requirement is either Greek, Latin, mathematics or a third year college course in a modern foreign language, subject to the approval of the department in which the *major* lies.

With a major in Division C, the requirement is Greek or Latin. This requirement is waived if two units of Greek or Latin have been presented for admission.

Work taken in fulfillment of this requirement (c) may also be counted toward the fulfillment of requirement (e) or (f).

d. *English*, twelve semester hours, including English 11 required in the first year, and six semester hours additional required before the end of the third year.

"*Fine Arts*" and "*Public Speaking*" *are not accepted in fulfillment of this requirement.*

e. *Foreign Language*, not more than thirty semester hours nor less than six semester hours, depending upon the amount of foreign language accepted for admission.

Each student must complete, *in college*, six semester hours in one foreign language at a level not lower than the second year college course in that language.

Each student must complete, either in preparatory school or in college, the equivalent of thirty semester hours, including a course at the third year college level in some one language. No allowance is made for less than six semester hours in any one language.

In calculating equivalents under this requirement, the first two units of preparatory work in one language are accepted as the equivalent of six semester hours of college work and each additional unit in the same language is accepted as the equivalent of six semester hours.

f. *Division A*, twelve semester hours for students whose admission record included two or three units in the natural sciences. For students who presented less than two units this requirement is eighteen semester hours. For students who presented four or more such units the requirement is reduced to six semester hours.

This requirement, if more than six hours, must be divided between at least two departments, and six semester hours of it must be in some one laboratory course in biology, chemistry, geology, or physics.

Courses in the history of various sciences may not be used in fulfillment of this requirement.

g. *Division B*, twelve semester hours for students whose admission record included two or three units of history or related subjects. For students who presented less than two units in this field, the requirement is eighteen semester hours. For students who presented four or more units in this field, the requirement is reduced to six semester hours.

This requirement, if more than six hours, must be divided between at least two departments with not less than six semester hours in some one department.

h. *Appreciation of the Fine Arts*, a semester course, three hours per week, required before the end of the second year.

4. *Physical Training*, three hours per week throughout the course except during the second semester of the senior year. Any student may be excused from this requirement for adequate reasons.

GRADING AND SCHOLARSHIP

A student's scholarship record is determined by his relative standing (rank) in each of his courses, among those who "pass."

College regulations concerning scholarship are based on the assumption that in any large class the major portion will do fairly satisfactory work and that the remainder will be about equally divided between those who clearly rank above and those who as clearly rank below the group just mentioned.

It is not assumed that every high rank implies excellent scholarship or that every low rank implies unsatisfactory scholarship, but it is taken as axiomatic that a high average rank indicates relative excellence, and that a low average rank indicates a relatively unsatisfactory record.

In recognition of the superior quality of work necessary to insure a high rank, additional credit is given to students who are ranked in the upper quarter in any three-hour course. This extra credit amounts to 0.5 hour for ranks from 1 to 5, on the basis of a class of 100 students, 0.3 hour for ranks from 6 to 15 and 0.2 hour for ranks from 16 to 25.

Courses in which a student is ranked in the lowest quarter of the class are counted toward the A.B. degree only when combined with courses in which the rank is higher, in the proportion of two hours of credit in the lowest quarter of any class to three hours of credit ranked *above* the lowest quarter in any course.

For the present, reports to students are made in terms of grades defined as follows: A, distinguished; B, superior; C, acceptable; D, unsatisfactory; F, failed. These grades are further defined by the expectation that in the long run, of the passing grades, not more than 5% will be A, not more than 25%, A and B combined, approximately 50%, C, and approximately 25% D.

CLASSIFICATION OF STUDENTS

Students are classified as freshmen, sophomores, juniors and seniors, on the following basis:

A student who, at the beginning of any academic year, has credit of less than 15 semester hours, is classified as a *freshman* for that year.

A student, who, at the beginning of any academic year, has credit of 15 hours or more, but less than 48 hours, is classified as a *sophomore* for that year.

A student, who, at the beginning of any academic year, has credit of 48 hours or more, but less than 84 hours, is classified as a *junior* for that year.

A student, who, at the beginning of any academic year, has credit of 84 hours or more, is classified as a *senior* for that year.

A student who has announced his intention of becoming a candidate for the degree of Bachelor of Arts in three years and who, at the beginning of his third year has completed eighty semester hours or more of credit, is classified as a *senior* for that year.

Any student, who, at the beginning of the second semester, is clearly in a position to complete the requirements for the degree before the beginning of the next academic year, is classified as a *senior* for the second semester.

HONORS

First honors and *second honors* are awarded annually to those members of each class who have, in the judgment of the College Board, distinguished themselves by their scholarship during the year.

The bachelor's degree is awarded *with honor*, *with high honor*, and *with highest honor* to those members of each graduating class who have made the most creditable records.

In 1914 the Clark Scholarship Society was organized. The society is similar in aims to the Society of Phi Beta Kappa. Its object is, "to maintain a high and broad conception of scholarship; to encourage devotion to scholarship, so conceived; to promote a close relation for mutual benefit between the undergraduate members and the faculty members of the Society." Membership in the Society is open to members of the faculty. New student members are normally elected at the end of each year from among the men of high standing in the junior class. Nominations are made by the College Board and the undergraduate members of the Society elect from the men so nominated. Additional nominations are made at the middle and end of the senior year.

ELIGIBILITY FOR EXTRA-CURRICULAR ACTIVITIES

Participation in extra-curricular activities is denied only to those students whose scholarship record indicates that further encroachment upon their time and attention may interfere with the completion of their course of study.

A student is "ineligible" for the following half semester if at any report period,

(a) he fails more than one course.
(b) he fails one course and does not secure ranks above the lowest quarter of the class in two subjects.
(c) he passes all courses, and does not secure a rank above the lowest quarter of the class in at least one subject.

Students carrying less than a full program of studies are ineligible, except in the case of seniors whose programs are adequate to insure their graduation at the end of the academic year.

Students admitted with advanced standing from another college are "ineligible" for the first half-semester of residence at Clark University, and special students are "ineligible."

STUDENT LIFE

It has always been the policy of the University to give to its students the greatest possible individual liberty of action and to adopt few rules of conduct.

It is assumed that each student will conform to the recognized standards of morality, good order, and gentlemanly conduct, that he will not absent himself unnecessarily from university exercises at which he is due, and that he will give his serious and constant attention to his work as a student.

Undergraduate organizations are under such control as will insure proper caution and recognition of responsibility in business dealings.

The general supervision of intercollegiate athletics is committed to an Athletic Board consisting of the Director of Physical Training, the Committee on Athletics of the College Board, two alumni elected by the Alumni Association, and nine student members. The action of this Athletic Board are subject to review and veto by the Committee on Athletics.

The non-athletic activities are supervised by the Student-Faculty Council.

Opportunity for relaxation and the meeting of students and faculty on a basis of general sociability is provided by the various clubs in which both students and faculty participate.

Student activities include a Glee Club and Orchestra which give a series of concerts in Worcester and elsewhere during the winter; a Debating Society whose members have made an enviable record for the University in intercollegiate debates; the Gryphon, a senior honor society, and other organizations.

The Dramatic Association is an active student organization which presents a number of plays each year under the direction of Professor George E. Baker of the Department of English.

The Clark Quarterly, a review of college life and letters, and *The Clark News*, a weekly undergraduate publication, and the *Pasticcio*, the college annual, are published by the students.

THE GRADUATE DIVISION

GENERAL INFORMATION

Admission to the Graduate Division is open to properly qualified persons, both men and women.

Instruction and opportunities for original research leading to the degrees of Master of Arts and Doctor of Philosophy are offered by the following departments:

- *Biology
- Chemistry
- Economics and Sociology
- Geography
- History and International Relations
- Physics
- Psychology

Other departments offer courses of an advanced nature which, with the consent of the Graduate Board, may be included in the programs of graduate students, but are not prepared at present to offer complete programs leading to the higher degrees.

A complete statement regarding tuition and expenses will be found under the heading "Tuition and Fees."

SCHOLARSHIPS AND FELLOWSHIPS

The University awards annually a number of scholarships yielding tuition and in some cases an additional stipend of not more than $200, and fellowships yielding tuition and additional stipends up to a value of $800. These stipends are provided from the income of the George F. Hoar Fund, the gift of Andrew Carnegie, and from other sources.

STUDENT AID

Student aid is available from the following funds, with the restrictions noted.

A CITIZEN'S FUND, the income of which is to be used for the aid of "some one or more worthy native born citizens of the City of Worcester who may desire to avail themselves of the advantages of the institution." The benefits of this fund are available to graduate students only.

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*In the department of Biology programs leading to the doctorate are limited to the field of Physiology.

The John White Field Fund, the income of which is "to provide for the minor needs of a scholar or fellow," has been established by Mrs. Eliza W. Field. The fund amounts to five hundred dollars.

The Eliza D. Dodge Fund is a sum of one thousand dollars, the income only of which is to be expended to aid graduate students of limited means engaged in research work.

LOAN FUNDS

The Sarah M. Thurber Fund. This fund has been established through the generosity of Dr. Charles H. Thurber, President of the Board of Trustees, as a memorial to his mother. The fund is administered by the President of the University. Loans from this fund bear interest at the rate of 6 per cent per annum.

Alumni Loan Funds. Loans from these funds are available on suitably endorsed notes. Applications require the approval of the student's major department, the Committee on Credentials of the Graduate Board, and the chairman of the Alumni Loan Fund Committee.

LIBRARY FACILITIES

In addition to the Library facilities provided by the University students may avail themselves of the privileges of several other excellent libraries in the city. The Worcester Public Library contains some 237,000 volumes and makes accessible to the public about 600 newspapers and magazines. The library of the American Antiquarian Society, housed in the national headquarters of the society in Worcester, contains about 136,000 volumes and some 202,000 pamphlets. The library of the Worcester District Medical Society is also at the disposal of members of the University.

ADMISSION TO THE GRADUATE SCHOOL

Eligibility. Admission is granted only by the Graduate Board on recommendation of a department. A graduate of more than average ability from a college or university which was on the approved list of the Association of American Universities at the time his bachelor's degree was obtained is eligible for admission as a *regular graduate student.* A graduate of superior attainments from a four-year college not on the list, is normally eligible for admission only as a *special graduate student* for a specified period, not exceeding one academic year. A special graduate student may be admitted by the Graduate Board to regular graduate standing after a semester, or its equivalent, of study in residence and upon the recommendation of his major department.

Application. A prospective applicant should communicate with the department in which he expects to do his major work, to learn whether his preparation is satisfactory, and whether he is likely to obtain the department's endorsement of his application. The application should be made on a blank form which may be had from the Recorder or the Secretary of the Graduate Board. This application, together with official certificates of previous undergraduate and graduate work, and a recent photograph (passport size preferred), should be filed with the Secretary of the Graduate Board. Any other pertinent information, including published or unpublished theses or other writings of the applicant, may accompany the application.

Admission. In granting admission, the Graduate Board may, with the advice of the department, prescribe a minimum period of residence never less than one year, and other definite requirements, including courses in particular subjects, as prerequisites for a graduate degree. Admission to the Graduate School does not in any way imply admission to candidacy for a degree. Admission to the Graduate School is granted for entry only at the specified time, and lapses if the student fails to enter at that time. If, after an applicant has entered as a regular student, his period of graduate study is broken by more than a year, he must make formal application for re-instatement.

Undergraduates and non-graduate special students in graduate courses. Admission of other than regular or special graduate students to a course "Primarily for Graduate Students" may be authorized by the Secretary of the Graduate Board on formal recommendation in each case by the department in which the course is offered.

SCHOLARSHIPS AND FELLOWSHIPS

GENERAL REGULATIONS

1. Scholarships and fellowships (except honorary appointments) are for prospective candidates for the degrees of Master of Arts and Doctor of Philosophy in this University.

2. All applications for scholarships and fellowships shall be filed by the applicant's major department with the Secretary of the Graduate Board on a form approved by the Board. Each application must carry the written explanatory, favorable or un-

favorable, recommendation of the department and must be accompanied by supporting data. Applications when properly endorsed, as provided above, will be considered by the Committee on Credentials, which will report to the Graduate Board the names of all applicants together with the recommendations of the Committee. The Secretary will notify applicants of the action of the Board.

3. An appointment will become effective when an acceptance in writing is filed with the Secretary of the Graduate Board within fifteen days of the date of notification.

4. For most favorable consideration applications for appointments for the succeeding academic year should be in the hands of the Secretary of the Graduate Board by March first.

5. Scholarships or fellowships are not transferable from one department to another except with the approval of the Graduate Board.

6. A scholar or fellow may not engage during the term of appointment in any occupation that may interfere with his duties as a full-time graduate student unless he obtains permission from the Graduate Board to do so.

SCHOLARSHIPS

Scholarships may be awarded to students of high rank who may be expected to fulfill the requirements for the master's degree in the normal time. These scholarships are valued at from $100 to $400 including tuition.

FELLOWSHIPS

Fellowships valued at $200 to $600, which are equivalent to tuition alone or to tuition and an additional stipend up to $400, may be awarded to competent, full-time, regular graduate students who have completed an amount of graduate work equivalent to the requirements for the M.A. degree. Fellowships valued at $200 to $1,000, equivalent to tuition alone or to tuition and an additional stipend up to $800, may be awarded to competent graduate students who give promise of completing their work for the degree of Doctor of Philosophy by the end of the academic year for which the appointments are made.

Some of these fellowships will be designated as *research fellowships or teaching fellowships*, with the consent of the applicant and on the recommendation of the department, in cases where research or teaching assistance in the department is to be a duty of the fellow. Where the research or teaching duties in such fellowship or in an assistantship would prevent a scholar or fellow from carrying a full program of studies during the academic year, he may nevertheless qualify for full-time credit for the year through an adequate summer program of research or reading directed by the major department and approved by the Graduate Board.

HONORARY FELLOWSHIPS

Distinguished visitors may be appointed Honorary Fellows for specified periods at the discretion of the Graduate Board. Such appointments entitle their holders to all university privileges and carry freedom from tuition charges.

RULES AND REGULATIONS

LANGUAGE REQUIREMENTS

Requirement in English. A student who wishes to become a candidate for a higher degree during his first year of residence may be required to come before the Committee on Language Examinations before admission to candidacy, for a test of the adequacy of his knowledge of English in respect to speaking, reading and writing.

A candidate for a graduate degree after more than one year of graduate study must satisfy his major department in respect to his knowledge of English.

Foreign Languages. A prospective candidate for the degree of Doctor of Philosophy is advised to prepare himself early for the oral examinations in reading modern languages. French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these. A student must take these examinations not later than February first of his first year of residence at Clark beyond the master's degree. When he is ready for either or both he is to notify the Recorder, who will arrange for the examination to be held within two weeks if possible. These examinations are conducted by a committee composed of a representative of one of the modern language departments, and a representative of the student's major department. The committee shall report the results of the examination to the Recorder. Additional language requirements may be imposed by the student's major department.

RESIDENCE

A regular academic year of full-time study or its specified equivalent in residence at Clark University is a prerequisite for any degree.

Only the following is recognized as equivalent to a regular academic year: one full semester of the regular academic year and the equivalent of 18 other weeks on a full-time program of graduate work approved by the major department may be accepted as meeting the residence requirements for the degree of Master of Arts. Residence work is broadly defined as regular work at Clark University done under the immediate personal supervision of at least one member of the university faculty. A field trip led by a member of the university faculty who is regularly engaged in graduate instruction is considered as providing an opportunity for work in residence to a maximum extent of nine weeks.

THE DEGREE OF MASTER OF ARTS

Admission to Candidacy. Regular students who have been admitted to the Graduate School without condition, or others who have met any special requirements imposed by the Graduate Board, may, when they have demonstrated their ability to do satisfactory work, be accepted by the Graduate Board as candidates for the degree of Master of Arts. An application for admission to candidacy for the master's degree will be considered by the Graduate Board when the student has:

1. Completed one semester of full-time graduate work or its equivalent in residence at this university;
2. Paid the diploma fee ($10) and publication fee ($10), and
3. Obtained the written endorsement of his major department.

Applications should be filed with the Secretary of the Graduate Board not later than the first week of the last full semester which the student expects to spend in residence as a candidate for the degree. Unless extended by action of the Graduate Board, candidacy for the degree of Master of Arts lapses at the end of three years. When candidacy expires without the degree having been awarded the diploma and publication fees, less any expenses incurred, will be returned.

Course requirements. In order to insure that the student may obtain the necessary training, he must meet a minimum course requirement of 18 semester hours in addition to his research work. The subject-distribution of the courses of each candidate must have the approval of the candidate's major department. A candidate for the master's degree who is definitely preparing to teach in secondary schools, may, with the approval of his major department, elect one or two semester courses in education which will count toward the fulfillment of this course requirement.

Examinations. The candidate must make a satisfactory record in such written examinations as may be required by the major department, and in a final oral examination of approximately one hour's duration by a committee of three or more, two of whom shall be members of the Graduate Board. The major department shall make a written report to the university Recorder, not later than 9 a. m. of the Friday preceding Commencement, stating the ground on which the candidate is recommended for the degree.

Thesis. The candidate must demonstrate that he has a comprehensive knowledge of his field of study and is capable of carrying on, under direction, a satisfactory investigation in that field. He must submit to his major department, by May 15 of the year in which the degree is to be conferred, a thesis on an approved topic and two copies of an abstract thereof. The thesis shall be in a prescribed form and shall bear upon the title page the following statement:

"A thesis submitted to the Faculty of Clark University, Worcester, Massachusetts, in partial fulfillment of the requirements for the degree of Master of Arts in the Department of———— and accepted on the recommendation of
(Name of Chief Instructor)."

The abstract should not exceed 600 words in length and should bear the written statement,

"Abstract approved for publication
(Name of Chief Instructor)."

The thesis and two copies of the abstract, bearing the signature of the chief instructor, shall be delivered to the university Recorder not later than 9 a. m. of the Friday preceding Commencement.

Additional copies of the thesis or abstract may be required by the major department.

THE DEGREE OF DOCTOR OF PHILOSOPHY

Course of Study. Only such candidates as give evidence of general proficiency, power of investigation and high attainments in the special field in which their major subjects lie will be encouraged to proceed to the degree of Doctor of Philosophy.

A graduate student who expects to proceed to the doctor's degree shall select a major subject of study, and at least one minor subject with the approval of the department in which the major subject lies.

Admission to Candidacy. Applications for admission to candidacy must be filed not later than November first, in any academic year, by students who hope to receive the degree at the end of that academic year.

An application for admission to candidacy for the degree of Doctor of Philosophy will be considered by the Graduate Board when the applicant has:

1. Completed two full academic years of graduate work or its equivalent;
2. Passed examinations in at least two foreign languages. French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these;
3. Passed a preliminary examination in his major and minor fields of study;
4. Paid the diploma and publication fees ($25 and $15);
5. Filed with his major department an application for admission to candidacy, stating the subject of his dissertation, and
6. Obtained the endorsement of the application from his major department.

Admission to candidacy for the degree of Doctor of Philosophy shall hold good only for three years from the date of the vote granting admission to candidacy. When candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, will be returned.

Dissertation. For the degree of Doctor of Philosophy an indispensable requirement is a dissertation upon an approved subject, to which it must be an original contribution of value.

Not later than May 1, the dissertation, with an abstract not exceeding 1,200 words in length, must be presented to the instructor under whose direction it is written. The dissertation shall contain a title page with the following statement:

> "A dissertation submitted to the Faculty of Clark University, Worcester, Massachusetts, in partial fulfillment of the requirements for the degree of Doctor of Philosophy in the Department of———and accepted on the recommendation of
> (Name of Chief Instructor)."

The abstract should bear the written statement,

> "Abstract approved for publication
> (Name of Chief Instructor)."

The dissertation and abstract must be accepted by the chief instructor before the final examination may be held. In every case the dissertation shall be laid before the examining committee at the time of examination, with the comments of the chief instructor and other readers.

The complete copy and two copies of the abstract of the dissertation, bearing the signature of the chief instructor, shall be delivered by the department to the university Recorder not later than 9 a. m. of the Friday preceding Commencement. The dissertation and one copy of the abstract will be deposited by the Recorder in the Library, where they shall remain permanently, not subject to withdrawal.

If and when a dissertation is published, five of the printed copies should be presented to the Clark University Library; four copies to be retained by the Library and the other to be presented to the Library of Congress for its annual list of American doctoral dissertations printed.

At the final examination the student will be expected to defend his dissertation and, at the discretion of the examining committee, he may be questioned over the entire field of his study. The final examination will be at least a two-hour oral examination. Additional written examinations may be given at the discretion of the department concerned. The oral examination will be held by a committee of at least four members, including the chairman or his duly appointed representative and one other representative of the department in which the candidate has done his major work, one or more representatives of the department or departments in which the candidate has elected his minor subjects, a member of the Graduate Board under whom the candidate has done no work, and such other members of the Graduate Board as care to attend.

The President of the University is authorized to invite any person from within or without the University to be present and to assist in the examination. The committee shall in each case appoint a clerk who shall report the results of the examination to the university Recorder.

Each department shall render to the university Recorder final reports in writing on all candidates for the degree of Doctor of Philosophy not later than 9 a. m. of the Friday preceding Commencement.

THE GRADUATE SCHOOL OF GEOGRAPHY

STAFF

Wallace W. Atwood, Ph.D., Professor of Physical and Regional Geography and Director of the Graduate School of Geography.

Douglas C. Ridgley, Ph.D., Professor of Geography in Education, Director of Home Study and of the Summer School.

Clarence F. Jones, Ph.D., Professor of Economic Geography.

W. Elmer Ekblaw, Ph.D., Professor of Geography, Assistant Editor, *Economic Geography*.

Samuel Van Valkenburg, Ph.D., Associate Professor of Climatology and Regional Geography.

Wallace W. Atwood, Jr., Ph.D., Assistant Professor of Physiography and Regional Geography.

Curtis F. Marbut, Ph.D., Special Lecturer on Soils.

Guy H. Burnham, A.M., Cartographer.

GENERAL STATEMENT

The Graduate School of Geography gives opportunity to properly qualified students to secure advanced training in Geography. The staff is composed of specialists in the various fields of Geography. They must of necessity spend a portion of their time in travel and in field studies, but while in residence, they offer regular courses of instruction and direct advanced students in research work. It is not the intention to offer all courses of instruction each year; many of them are given once in two years. Abundant opportunities for instruction are provided, but graduate students are advised not to burden themselves by attending too many lecture courses. They must depend very largely for their growth upon their individual efforts in research, under the direction of members of the staff. The map collection and the Libraries offer them unusual facilities for research work in residence, but it is hoped that all graduate students, before completing their university work, may undertake field studies.

The publication of *Economic Geography*, issued quarterly, was begun in 1925.

In the Summer School each year many members of the geography staff offer both elementary and advanced courses. These are acceptable for preparation for graduate work and for meeting in part the requirements for the degree of Master of Arts.

GEOGRAPHY COURSES FOR COLLEGE STUDENTS

Undergraduates planning to go on into graduate work in Geography are urged to consult the Geography Staff early in their undergraduate course, so that suitable programs may be mapped out including essential courses in related fields. A *major* in Geography should in general begin with Geography 10 in the first year and should include Geography 12 in the second or third year of the course. An attempt should be made to secure some acquaintance with each of the principal divisions of the field of Geography: Regional Geography, Physiography, Meteorology and Climatology, Economic Geography, Anthropogeography and Political Geography.

For a *minor* in Geography, the "Fundamentals" and a course in Regional Geography are recommended for the first year, or General Geology for the second year, and "Natural Resources" or Economic Geography for the third year.

Additional courses recommended for *majors* or *minors* in Geography are as follows:

General Physics (Physics 11).

Principles of Economics (Ec. 11).

A Survey of International Relations (Hist. 18).

German and French (a good reading knowledge), English for at least two years, ancient and modern history, chemistry, and biology or botany are also recommended as foundations for advanced work in geography.

GRADUATE WORK IN THE SCHOOL OF GEOGRAPHY

The Graduate School of Geography is open to any who wish to receive professional training in geography, and who are qualified to enter the Graduate Division of the University and take advanced work in geography. The undergraduate preparation for advanced work is indicated by the above college program.

Degrees of Master of Arts and of Doctor of Philosophy are conferred. For the Master's degree two years may be required for those whose preparation is considered to be insufficient to permit them to qualify in the minimum time.

The following courses in other departments should be of interest to students in Geography: Botany (Biol. 14); Economic History (Ec. 14); Statistical Analysis (Ec. 16); International Trade and International Finance (Ec. 27a); International Economic Policies (Ec. 31); The Pacific and the Far East (Hist. 22); Latin America (Hist. 27).

All prospective candidates for graduate degrees in geography who are in residence will be expected to attend the field camp for three weeks each autumn, and during the year to take part in the seminar.

Formal course work in geography ends in midwinter on January 15, and in spring on May 1, leaving students free to read and to coördinate their work prior to the examination periods.

Candidates for the master's degree in Geography will be expected to pass written examinations and a general oral examination in the following fields: physiography, climatology, soils, plant geography, land utilization and agricultural geography, economic geography, human geography, regional geography, and geography in education.

Candidates for the doctor's degree in geography will be expected to pass more advanced written examinations, and a general oral examination including the broad foundation required for the master's degree and such more advanced studies as the candidate may have pursued in the fields of his particular interests. In general, a year of work beyond the master's degree should prepare a candidate for his general examination which is preliminary to his being accepted as a candidate for the Ph.D. degree and to his entering on concentrated work for his Ph.D. dissertation. This year of course work may well include, besides certain advanced courses in geography, related advanced studies in history and international relations, economics, or physics. The student is given much freedom of choice. By February 1 of the year prior to the final one for the doctorate a prospective candidate for the doctorate will be expected to show a reading knowledge of German and French.[1] These two foreign languages are the most important for American geographers.

STUDENTS' FEES

All geography students in residence must meet the camp fee, the workroom fee, and a classroom materials fee.

The camp fee covers board and lodging, transportation, maps, drafting supplies, and meteorological instruments from the time the party leaves Worcester to go to camp till it returns at the end of the three weeks' period. The fee is $75, payable October 1 to the camp treasurer. The tuition fee for students participating in the field course only is $25.

The workroom fee is assessed to help maintain the geography workroom and equipment used by graduate students. It applies to the alcove desk, files of maps, the card catalog, drafting tables and instruments. There are also adding and computing machines. The workroom fee is $5.00 a semester, payable November 1 and March 1, to the departmental stenographer.

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[1] While German and French will normally be the two languages required, an exception might be made in a case where the dissertation for the doctorate demands a comprehensive knowledge of Spanish.

The classroom materials fee is for mimeographed outlines, abstracts, summaries, chapters of theses in the various courses and in the seminar and for the maintenance in part of the classroom wall-maps and other equipment, and for the small expense of balloons and hydrogen and of some meteorological instruments. The classroom materials fee is $5.00 each semester, payable November 1 and March 1, to the departmental stenographer.

COURSES IN GEOGRAPHY

1. Primarily for Undergraduates

10a. Fundamentals of Geography. (The Significance of Geographic Environment for 1933–34.) An introduction to the principles of geography.
Open to Freshmen.
Three hours, first semester. Tu. Th. S., 8. Mr. Atwood, Jr.

10b. Geographic Regions and Their Economic Significance.
Open to Freshmen.
Three hours, second semester. Tu. Th. S., 8. Mr. Atwood, Jr.

100a. Conservation of Natural Resources.
Three hours, first semester. M. W. F., 8. Mr. Ridgley

181b. Geography of North America.
Open to Freshmen.
Three hours, second semester. M. W. F., 8. Mr. Ridgley

[**185b. Geography of Europe.**
Three hours, second semester. Tu. Th. S., 8. Mr. Ridgley]

Geology 12. General Geology.
Three hours, through the year. M. W. F., 8; Th. 2. Mr. Little

12a. Weather.
Three hours, first semester. M. W. F., 9. Mr. Van Valkenburg

12b. The World Climates.
Three hours, second semester. M. W. F., 9. Mr. Van Valkenburg

Biology 14b. General Botany.
Three hours, second semester. Mr. Potter

[**17a. Geography of Worcester and Vicinity.** A field and laboratory course. New course to be offered in 1933–34. Prerequisite, Geography 10a and 10b and Geology 12, or equivalent.
Three hours, first semester. MR. ATWOOD, JR.]

[**18b. Regional Physiography of North America.** New course to be offered in 1933–34. Prerequisite, Geology 12, or 9 hours of geography.
Three hours, second semester. MR. ATWOOD, JR.]

Geology 121a. Mineralogy.
Three hours, first semester. MR. LITTLE

Geology 122b. Economic Geology.
Three hours, second semester. MR. LITTLE

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

21a. Interpretation of Physiographic Features. (To be replaced by Geography 31, Regional Physiography of the World I and II, in 1933–34.) Prerequisite, Geology 12, or equivalent in Physiography.
Two hours, first semester. M. W., 9.
PRESIDENT ATWOOD AND MR. ATWOOD, JR.

22a. Climatology. (To be replaced by Geography 32, Regional Climatology, in 1933–34.) Prerequisite, Geography 12, a and b, or equivalent.
Two hours, first semester. M. W., 11. MR. VAN VALKENBURG

24a. Plant Geography. (To be replaced by Geography 34a in 1933–34.) Prerequisites, Biology 14b or equivalent, Geology 12 or equivalent in physiography, and Geography 12 or equivalent. Ekblaw
Two hours, first semester. M. W. 10. MR. ~~VAN VALKENBURG~~

26. Economic Geography. Prerequisites, Geography 10a, 10b, 12a, 12b, and Geology 12.
Two hours, through the year. Tu. Th., 9. MR. JONES

201b. Geography of Asia.
Two hours, second semester. Tu. Th., 2. MR. VAN VALKENBURG

[**202b. Political Geography.** MR. VAN VALKENBURG]
New course to be offered in 1933–34.

[**290a. Cartography and Graphics.**
One hour, first semester. PRESIDENT ATWOOD AND MR. BURNHAM]

29b. Geography in Education. Prerequisites, Geography 10a and other geography courses totaling at least 18 hours.
Three hours, second semester. Tu. Th. S., 8. MR. RIDGLEY

3. EXCLUSIVELY FOR GRADUATE STUDENTS

30. Seminar.
Two hours, through the year. Th., 3:30. STAFF

31b. Regional Physiography of the World—II. Prerequisite, Geology 12, or equivalent in physiography.
Two hours, second semester. M. W., 9; Tu., 2–3:30.
PRESIDENT ATWOOD AND MR. ATWOOD, JR.

32b. Regional Climatology. Prerequisite, Geography 12, a and b, or equivalent.
Two hours, second semester. M. W., 11; W. 2–3:30.
MR. VAN VALKENBURG

33a. Soil Geography.
Daily, for one month. MR. MARBUT

35b. Land Utilization and Agricultural Geography. Prerequisite, Geography 10, or equivalent.
Two hours, second semester. M. W., 2. MR. EKBLAW

310. Research in Regional Physiography. PRESIDENT ATWOOD

320. Research in Climatology. MR. VAN VALKENBURG

330. Research in Soils. MR. MARBUT

340. Research in Plant Geography. MR. EKBLAW

341b. Plant Regions of the World. Prerequisite, Geography 24a.
Two hours, second semester. M. W., 10. MR. EKBLAW

350. Research in Agricultural Geography or Land Utilization.
MR. EKBLAW

[**36b. Industrial Geography.** Prerequisites, Geography 26a and 21a or 22a.
Two hours, second semester. M. W., 2. MR. JONES]

360. Research in Industrial or Commercial Geography.
MR. JONES

[**362b. Geographic Aspects of United States Foreign Trade.**
Two hours, second semester. Tu. Th., 11. MR. JONES]

37a. General Principles of Anthropogeography. (General Principles of Human Geography in 1933–34.) Prerequisites, 9 hours of geography or history and permission of the instructor.
Three hours, first semester. M. Tu. W., 2. MR. EKBLAW

370. Research in Human Geography. MR. EKBLAW

[**375a. Geography of Europe.** Prerequisite, 6 hours of European History.
Two hours, first semester. M. W., 4. MR. EKBLAW]

380. Research in Regional Geography.
One or more members of the Staff

383b. Caribbean America.
Two hours, second semester. Tu. Th., 11. MR. JONES

384a. South America.
Two hours, first semester. Tu. Th., 11. MR. JONES

History 22. The Pacific and the Far East.
Three hours, through the year. M. W. F., 10. MR. BLAKESLEE

394a. Field Methods and Studies. Three weeks at the opening of the school year. Connecticut Valley, 1925 to 1930 inclusive; Cape Cod, 1931; Connecticut Valley, 1932.

Required each year of all candidates for graduate degrees in geography.

HOME STUDY COURSES IN GEOGRAPHY

There are many teaching geography in the schools of this country who have not had an opportunity to receive adequate special instruction in this field of work. During the last few years there have been notable developments in the methods used in the teaching of geography and notable changes in the political geography of the world. The human point of view should now dominate in all of the instructional work done with children; the subject should broaden the knowledge and world sympathies of the American people. It is necessary for all teachers of geography who wish to be abreast of the times to carry on in some way their own study and training.

The University wishes to extend its services as widely as possible for the betterment of the teaching of geography, and therefore, in addition to the regular resident courses and the Summer School work, in offering a series of Home Study Courses. Professor Ridgley is in immediate charge of this work.

COURSES

1. The Teaching of Geography in the Elementary School.

1a. The Teaching of Geography based on the New York State Syllabus. Grades 3, 4, 5, and 6.

2. **The Teaching of Home Geography and World as a Whole.**

2a. **The Teaching of Third Grade Geography based on the New York State Syllabus.**

3. **The Teaching of North America.**

4. **The Teaching of South America, Europe and Asia.**

5. **The Teaching of Geographic Factors and the United States in Its World Relations.**

5a. **Interpretation of the Globe, Maps, and Graphs.**

6. **Industrial and Commercial Geography.**

7. **Geography of North America.**

8. **Geography of South America.**

9. **Geography of Europe.**

10. **Home Study Course for European Travel.**

11. **Geography of the Eastern Continents.**

12. **The Physical Geography of the Lands.**

13. **Fundamentals of Climate.**

14. **Climates of the World.**

15. **Climatology of the United States.**

16. **Mathematical Geography.**

17. **Graphics and Cartography.**

18. **Special Studies in Geography.**

CREDITS AND TUITION

Each course consists of 36 written lessons and is intended to be the equivalent of a college course taken in residence, meeting three times per week for a semester of 18 weeks. In general, the preparation and the writing of each lesson is expected to require about four or five hours.

The tuition for each course is eighteen ($18) dollars, payable at the time of enrollment. A course may be begun at any time, but it should be completed within twelve months.

Further information about these courses will be sent upon request. Address all communications to Clark University, Home Study Department, Worcester, Mass.

THE SUMMER SCHOOL

OFFICERS OF INSTRUCTION AND ADMINISTRATION

Wallace Walter Atwood, Ph.D. President of Clark University and Director of the Graduate School of Geography.	Geography
Douglas Clay Ridgley, Ph.D. Director of the Summer School and Professor of Geography in Education, Clark University.	Geography
Clarence Fielden Jones, Ph.D. Professor of Economic Geography, Clark University.	Geography
Walter Elmer Ekblaw, Ph.D. Professor of Geography, Clark University.	Geography
Samuel Van Valkenburg, Ph.D. Associate Professor of Climatology and Regional Geography, Clark University.	Geography
Wallace Walter Atwood, Jr., Ph.D. Assistant Professor of Physiography and Regional Geography, Clark University.	Geography
Guy H. Burnham, A.M. Cartographer, Clark University.	Cartography
Homer Payson Little, Ph.D. Dean of the College and Professor of Geology, Clark University.	Geology
Dwight E. Lee, Ph.D. Associate Professor of Modern European History, Clark University.	History
Ray Allen Billington, A.M. Instructor in History, Clark University.	History
Samuel J. Brandenburg, Ph.D. Professor of Economics and Sociology, Clark University.	Economics
Robert S. Illingworth, A.M. Associate Professor of English, Clark University.	English
Lydia P. Colby	Recorder
Florence Chandler	Bursar

The session of 1933 will begin July 3 and end August 11.

Instruction will be offered in geography, geology, history, education, economics, and English.

Qualified students are admitted upon presentation of proper credentials. Both undergraduate and graduate work is offered. Work done in the Summer School may be counted, subject to the regulations of the College and the Graduate School and of the Faculty of the University, toward fulfillment of the requirements for the degrees of Bachelor of Arts, Bachelor of Education, and graduate degrees. Unless otherwise announced, each course is intended to be the equivalent of a course meeting two hours per week throughout a semester and is credited, when accepted toward the fulfillment of the requirements for a bachelor's degree in this University, for two semester hours.

The tuition charges are twenty dollars for a single course meeting five times a week and thirty-five dollars for two or three courses. Rooms in the vicinity of the University cost from three dollars a week up, and board may be obtained at a reasonable rate.

The Summer School Bulletin, published about February 1, contains detailed information about the coming session with descriptions of the various courses, and may be had upon application to the Director of the Summer School, Clark University, Worcester, Mass.

The names of the students who attended the Summer School in 1932 will be found in the Register at the end of this catalogue.

FIELD TRIPS DURING AND FOLLOWING THE SUMMER SCHOOL

The field trips of 1933 are a continuation of a plan inaugurated by the Clark University Summer School in 1924 for the study of geography out-of-doors.

Geographic Field Studies in the Rocky Mountains of Colorado. Open to men only. Field work at headquarters camp in Colorado, June 15 to July 25, 1933. Instructor: Wallace W. Atwood, Jr.

Middle West and Chicago World's Fair Trip from Worcester. Saturday, August 12, 14 days or more. Instructor: W. Elmer Ekblaw.

Middle West and Chicago World's Fair Trip from Oswego, New York. Saturday, August 12, to Friday, August 25. 14 days. Instructor: Isabelle K. Hart, State Normal School, Oswego, New York.

Full information concerning these trips will be furnished on request.

LIST OF COURSES

The starred courses (*) are those definitely intended, by the department concerned, for students who are candidates for the degree of Master of Arts in Clark University, but the courses are not restricted to such students.

GEOGRAPHY

SS11.	**Field Work in Geography.**	Dr. Jones
SS12.	**Weather.**	Dr. Van Valkenburg
SS14.	**Economic Geography.**	Dr. Jones
SS122.	**Climates of the World.**	Dr. Van Valkenburg
SS181.	**The Teaching of Geography.**	Dr. Ridgley
SS190.	**Mathematical Geography.**	Mr. Burnham
SS191.	**Graphics and Cartography.**	Mr. Burnham
***SS23.**	**Geography of Asia.**	Dr. Van Valkenburg
***SS27.**	**Influences of Geographic Environment.**	Dr. Ekblaw
***SS28.**	**Geography in Education for Special Teachers.**	Dr. Ridgley
***SS285.**	**Geography of Europe.**	Dr. Ekblaw
***SS392.**	**Field Methods and Studies.**	Dr. Jones
***SS30.**	**Seminar in Geography.**	The Geography Staff
***SS32.**	**Research in Climatology, or in Geography of Asia.**	Dr. Van Valkenburg
***SS34.**	**Research in Economic Geography, or in Regional Geography.**	Dr. Jones
***SS37.**	**Research in Human Geography, or in Geography of Europe.**	Dr. Ekblaw

GEOLOGY

SS1.	**Physical Geology.**	Dr. Little

HISTORY

SS1.	**History of Europe, 1500 to 1830.**	Dr. Lee
***SS221.**	**Post War International Relations of Europe.**	Dr. Lee
***SS126.**	**Introduction to Historiography and Criticism.**	Dr. Lee and Mr. Billington
SS10.	**American History to 1840.**	Mr. Billington
***SS23.**	**Social and Intellectual History of the United States, 1825–1900.**	Mr. Billington

ECONOMICS

SS1.	**Principles of Economics.**	Dr. Brandenburg
***SS210.**	**Economic and Social Reform Programs.**	Dr. Brandenburg

ENGLISH

SS1.	**Modern Drama.**	Professor Illingworth
SS6.	**Modern American Poetry.**	Professor Illingworth

EDUCATION

SS21	**Extra-Curricular Activities.**	Professor Illingworth

THE DEGREE OF BACHELOR OF EDUCATION

The degree of Bachelor of Education is offered primarily to teachers, both men and women. A two-year normal school course or its equivalent is a prerequisite for admission to candidacy and a year of teaching experience is a prerequisite for the degree.

Candidates for this degree may earn the necessary residence credit by attendance at the Summer School or by enrolling in special courses for adults offered at the University during the regular academic year, or in such regular university courses as may be open to them.

Women who are candidates for this degree will usually not find it possible to secure a full program of courses during the regular academic year.

A normal program for summer school students consists of three courses, each yielding two semester hours of credit. Two extension courses, each yielding two semester hours of credit, constitute a normal program for teachers in service. Credit toward the degree may also be earned through the Home Study Department and in connection with the field trips offered by the Summer School, but credit so earned may not be used to reduce the minimum residence requirement of 30 semester hours.

Courses (designated as "College Courses for Adults") are offered during the regular academic year on Saturday morning and on certain afternoons for the convenience of candidates for this degree who are teaching in or near Worcester. By taking advantage of these courses it is possible for a teacher to complete in four years the equivalent of a year of study in residence.

The general administration of regulations applying to the degree of Bachelor of Education is lodged with the Committee on Extension Courses and Special Students, whose secretary acts as the administrative officer in dealing with students. The regulations applying to this degree are summarized in the following paragraphs.

1. ADMISSION REQUIREMENTS. The completion of a standard two-year course in a Massachusetts State Normal School or Teacher's College or the reasonable equivalent of such a course.

2. REQUIREMENTS FOR THE DEGREE:

a. At least one year's teaching experience
b. At least 30 semester hours of credit earned *in residence* at Clark University.

c. 120 semester hours of college credit, including advanced standing based upon the admission requirements.

d. Requirements in particular subjects:

(1) Six semester hours in Psychology or Education taken after the completion of the admission requirements.

(2) Six semester hours of Laboratory Science taken after the completion of the admission requirements.

(3) Ten semester hours of English, which may be completed in whole or in part before admission.

(4) Ten semester hours of foreign language, which may be completed in whole or in part before admission.

(5) Twelve semester hours of Economics, Geography, Government, History, or Sociology, at least six of which must be taken after the completion of the admission requirements.

3. Standard of Scholarship: The same standard of scholarship is required of candidates for this degree as for the degree of Bachelor of Arts.

4. Advanced Standing:

a. Credit of 54 semester hours will normally be given for the standard two-year course in a Massachusetts State Normal School or Teachers College. This may be reduced in special cases.

b. Credit will be allowed for work done at other Universities, Colleges, or Normal Schools, subject to reasonable regulations.

c. Not more than 30 semester hours of credit may be allowed for home study or extension courses. The acceptance of any work of this type is subject to the approval of the Committee on Extension Courses and Special Students. The "College Courses for Adults" offered by Clark University expressly for candidates for this degree are not subject to the restriction stated.

5. Lapse of Candidacy. Candidacy for the degree of Bachelor of Education terminates automatically whenever for a period of two years or more a candidate has failed to complete any courses in Clark University yielding credit toward the degree. A candidacy terminated under this rule may be renewed by action of the committee named above. Such renewal may involve a revision of allowances previously made, both in respect to total credit, and requirements in particular subjects.

Inquiries regarding the degree of Bachelor of Education should be addressed to the Recorder.

SPECIAL COURSES FOR TEACHERS

With the needs of candidates for the degree of Bachelor of Education in mind, the University offers a series of college courses for adults designed both in respect to content and time of meeting for teachers in the public schools of Worcester and the surrounding region. These courses are also open to the general public. When occasion arises the subject of aims and methods of teaching is treated in some of these courses.

During the academic year 1932–33, the following courses have been given:

BIOLOGY

1. **Botany: The Liverworts, Mosses and Ferns.**	Mr. Potter
2. **Botany: The Ferns and Club Mosses.**	Mr. Potter
3. **Human Anatomy and Physiology.**	Mr. Pomerat

ECONOMICS AND SOCIOLOGY

1. **Economic and Social Problems.**	Mr. Brandenburg

ENGLISH

1. **The International Drama.**	Mr. Dodd
2. **The American Theater.**	Mr. Dodd
3. **Oral Interpretation of Literature.**	Mr. Illingworth
4. **Shakespeare.**	Mr. Illingworth

FRENCH

1. **Elementary Course.**	Mr. Churchman
2. **Intermediate Course.**	Mr. Dougherty
3. **Advanced Course: French Customs and Culture.**	Mr. L. L. Atwood
4. **Practical French (Advanced).**	Mr. L. L. Atwood
5. **Seminar.**	Mr. LaRue
6. **Supplementary Composition and Oral Work.**	Mr. LaRue

GEOGRAPHY

1. **General World Geography.**	Mr. C. F. Jones
2. **Geography of Asia.**	Mr. Van Valkenburg
3. **Asia and Australia.**	Mr. Van Valkenburg

May 17, 1953

Notice

TO STUDENTS MAJORING IN ENGLISH

Beginning with the class of '56 students majoring in English will be required to include English 15 (six hours) among their electives. It is recommended that the course be taken in the sophomore year.

CLARK UNIVERSITY
BULLETIN

No. 94 MAY, 1932

OURSES OF COLLEGE GRADE FOR ADULTS

TO BE OFFERED IN THE
FIRST SEMESTER
1932-33

PEN TO MEN AND WOMEN. COURSES MEET
ONCE A WEEK. LATE AFTERNOON AND
SATURDAY MORNING

PROGRAM OF COURSES

MONDAY

4:20—6:00	Biology. Pomerat
4:20—6:00	Elementary French. Churchman
4:20—6:00	Intermediate French. Dougherty

TUESDAY

4:20—6:00	Advanced French. L. L. Atwood
4:20—6:00	Elementary German. Bosshard

WEDNESDAY

4:20—6:00	English. Illingworth
4:20—6:00	Geography. Jones
4:20—5:10	French Composition and Or Work. LaRue
5:10—6:00	French Seminar. LaRue

THURSDAY

4:20—6:00	Economics. Brandenburg
4:20—6:00	Geography. W. W. Atwood, Jr

FRIDAY

4:20—6:00	Botany. Potter

SATURDAY

10:00—11:40	English. Dodd

SPECIAL NOTICE

A COURSE IN GEOGRAPHY BY PROFESSOR VAN VALKENBURG

It is a pleasure to add to the courses announced in the Bulletin for the first semester of the year 1932-33, the following course by Professor Samuel Van Valkenburg, who returns to the faculty of Clark University this year:

GEOGRAPHY OF ASIA. A course in regional geography. A general introduction to Asia as a continent, followed by a regional discussion with special reference to the response of man to his geographical environment. *Two semester hours*

Pending instructions from Professor Van Valkenburg this course has been scheduled for Tuesday, 4.20-6.00, subject to change by special announcement.

SPECIAL NOTICE

A COURSE IN GEOGRAPHY BY PROFESSOR VAN VALKENBURG

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Pending instructions from Professor Van Valkenburg this course has been scheduled for Tuesday, 4.20-6.00, subject to change by special announcement.

Aim and Character of the Courses

Clark University will again offer during the academic year (1932-33) a series of courses of college grade for adults. Some of these courses, both in respect to content and time of meeting, are particularly intended for teachers in the schools of Worcester and the surrounding region. Many of them, however, have no such limited objective, but should appeal to the public on the grounds of utility or general culture.

All of these courses are open to mature persons who, in the judgment of the instructor, are suitably prepared. Those who do not desire official records of work done are admitted as "auditors" and are not required to "matriculate." The courses are strictly of college grade and may be used for credit by those who are formally enrolled as candidates for the degree of Bachelor of Education in this University. Candidates for the degree of Bachelor of Arts may include these courses in their programs only when official authorization in advance is secured from the College Board. In similar circumstances candidates for the degree of Master of Arts should secure the approval of their major departments.

Date of Opening

Classes will meet for organization and the beginning of work during the week Sept. 26—Oct. 1 on the day specified after the description of each course.

Attendance at the first meeting and promptness at all classes are highly desirable. Early registration, even before the opening date, will

be of assistance in determining which courses shall be given; those courses for which a good demand is evident early will naturally receive the preference.

Registration and Charges

Registration involves the filling out of an enrollment card and payment of the fee. Students are not enrolled until the *enrollment card and the fee* for each course have been received by the Bursar. Those who desire to avoid the delay involved in making payments at the office of the Bursar may enroll by mail.

Tuition charges are $8.00 for a course meeting one hour a week for one semester, and $15.00 for a course meeting two hours a week for one semester. Tuition is due at or before the first meeting of each course.

The matriculation fee of $5.00 is a charge for the opening of an official record in the office of the University Registrar. Matriculated students receive official certificates on which credit toward a degree may be granted at Clark University or elsewhere, subject to the standing regulations of the institution to which they may be presented.

Class lists for all courses will be closed Oct. 15, 1932. Enrollment after that date will be possible only in special cases, with the consent of the Registrar.

A late registration fee of one dollar for each week of delay will be charged in all cases when the fee is paid after the above date.

Standards, Credit, Terms of Admission

Only courses of college grade will be given, but students without the conventional preparatory training may be admitted to any course at the discretion of the instructor.

Courses will meet for periods of 50 to 100 minutes. The usual hours for afternoon courses running for 100 minutes will be from 4:20 to 6:00; one-hour afternoon courses will usually run from 5:00 to 5:50; hours for Saturday and evening courses will be decided by the individual instructors.

Credit. When accepted for undergraduate credit in this University, one semester hour will normally be granted for a two-hour course (100 minutes) meeting 8 times, or a one-hour course (50 minutes) meeting 16 times, and two semester hours for a two-hour course (100 minutes) meeting 16 times.

Regular outside preparation or collateral reading is expected in every course, except in the case of auditors. This outside work will be similar in amount to the preparation expected in regular undergraduate courses, namely an average of two hours per week for each semester hour of credit in the course. Those who prefer to attend without doing any outside work are welcome, but will be classed as auditors.

In view of the outside work required it is obviously unwise for students who are otherwise busy to attempt many of these courses at the same time. By vote of the committee in charge of this work, persons who are in any full-time employment will not hereafter be permitted to register at any one time for courses carrying more than four semester hours of credit.

FOR FURTHER INFORMATION, ADDRESS:

C. E. MELVILLE, *Registrar.*

LIST OF COURSES

NOTE: Any course for which there are fewer than 20 registrations at the time of the second scheduled meeting may be discontinued at the discretion of the instructor in charge.

Biology

1. BOTANY: THE LIVERWORTS, MOSSES AND FERNS. An intensive study of the structure, life-histories and classification of these plants. Special emphasis will be placed on those forms found in our local flora.

Two semester hours
Fridays 4:20—6:00 MR. POTTER
Room 206

2. BOTANY: SYSTEMATIC BOTANY OF THE HIGHER PLANTS. This course will treat the Club Mosses, Ferns, Conifers and Flowering Plants from a taxonomic viewpoint. The primary aim of this course is to familiarize the student with our local flora.

Two semester hours
Fridays 4:20—6:00 MR. POTTER
Room 206

3. THE BIOLOGY OF ANIMALS. This course aims to furnish a basis for the interpretation of life as it appears in the animal world, including man. The study of a series of forms of increasing complexity develops a conception of what an animal is, and how animals have solved the problem of existence in changing surroundings. Structures and activities are considered in relation to each other and to the animal as a whole. The emphasis during the first semester will be placed on the inver-

tebrates. The second semester will be devoted to the backboned animals. Lectures, demonstrations and occasional field trips.

Two semester hours

Mondays 4:20—6:00 Mr. Pomerat

Room 206

4. Human Anatomy and Physiology. A systematic survey of the organization and the activities of the human body. The work will consist largely of practical laboratory exercises and demonstrations. Emphasis will be placed on techniques useful in the teaching of hygiene. The first semester will include a study of bodily framework, the tissues of motion and protection; systems associated with metabolism including those affecting gas exchange, nutrition, transportation and elimination. In the second semester a study will be made of dominating and co-ordinating devices (nervous and endocrine systems), and of the organs specialized for the preservation of the species.

Two semester hours

Mondays 4:20—6:00 Mr. Pomerat

Room 206

Note: Either Course 1 or Course 2, but not both, and either Course 3 or Course 4, but not both, will be given in accordance with demand. These courses will continue through the year, but either semester may be taken separately.

Economics and Sociology

1. Economic and Social Problems This course considers important issues of recent or current

interest and seeks to understand and interpret them in the light of sound social policy. It emphasizes the economic and sociological aspects of contemporary problems such as: unemployment, its amount, causes, prevention and relief; unemployment insurance and other forms of social insurance; wage levels and wage changes; profit sharing, customer and employee stock ownership; mass production, mergers and monopolies; chain stores, installment buying, speculation; tariffs and farm relief; international trade and world economic relationships. The work is planned to meet the needs of teachers of any of the social sciences in intermediate and secondary schools, and of workers in other fields who feel the need of a broader background; it should be illuminating to all thoughtful persons who have an intelligent interest in our economic and social life. Lectures, required readings, discussions, and written tests.

Two semester hours
Thursdays 4:20—6:00 Mr. Brandenburg
Room 115

English

1. The International Drama. A study of fifteen modern dramatists whose plays have been played in the chief countries of the world: Ibsen, Maeterlinck, Rostand, Hauptmann, Sudermann, Strindberg, Barrie, Shaw, Galsworthy, Pinero, O'Neill, D'Annunzio, Pirandello, Benavente and Chekov.

The course is designed both for those who do and for those who do not wish college credit. The former will be required to read two plays weekly and at intervals to make reports or write critical papers. In place of these critical papers those who are interested in attempting dramatic composition may submit original one-act or longer plays.

The first hour of each meeting will be given over to a lecture, critical and biographical in nature, with readings from other plays by the dramatist under consideration.

Members of the class may draw copies of the plays from the University library.

Two semester hours

Saturdays 10:00—11:40 MR. DODD

2. ORAL INTERPRETATION OF LITERATURE. The purpose of this course is to develop ability to read aloud in a simple, intelligent, and expressive manner. The materials will be drawn chiefly from prose and poetry of assured literary value, with a view of gaining through oral interpretation an added appreciation of literature. Elementary voice training. A study of the best textbooks and readings in poetry, drama, and short story are a part of the course.

Two semester hours

Wednesdays 4:20—6:00 MR. ILLINGWORTH

Room 218

French

1. ELEMENTARY COURSE. A general introduction to the language for beginners, with reading ability as its ultimate goal, but utilizing oral work based on phonetics, and making a careful study of the fundamentals of grammar, with application to spoken and written French. The texts to be

used are Fraser and Squair's *New Elementary French Grammar* and Jacob Greenberg's *French Silent Reader.*

Two semester hours
Mondays 4:20—6:00 MR. CHURCHMAN
Room 104

2. INTERMEDIATE COURSE. Essentially a continuation of the Elementary Course given in 1931-1932, with emphasis upon French-English translation and pronunciation. The principal reading texts will be the following: Bond, *Terre de France,* (to be completed from the point reached in June, 1932), and Hills and Holbrook, *French Short Stories.* Exercises in composition, dictation, and the reading of French periodicals. This course is open to anyone possessing an elementary knowledge of French.

Mondays 4:20—6:00 MR. DOUGHERTY
Two semester hours
Room 218

3. ADVANCED COURSE: FRENCH CUSTOMS AND CULTURE. The main purpose of this course is the study of French customs and the cultural contributions of France in the field of the arts, literature, science, etc. Some attention will also be paid to the geography and history of the country. Although French will be the language of the classroom, it is not assumed that the student has already developed the ability to express himself perfectly in everyday speech. This will come with practice, and those students who have studied French for two years should consider themselves

satisfactorily prepared. The text-books used will be Pargment, *La France et les Français,* and Pattou, *French à la Mode.* Occasional illustrated lectures will be given. Advanced French, when the content is changed, may be repeated once with full credit, but not more than once.

Two semester hours
Tuesdays 4:20—6:00 MR. LELAND L. ATWOOD
Room 212.

4. SEMINAR. Discussions, usually in French, of current topics in French literature and civilization, and occasionally of some problem connected with the teaching of the language. This course will hereafter be open to the following two classes of persons:

(1). All those interested in the discussion of the topics mentioned above who wish to attend without credit or the payment of a fee. Such members of the class are invited, but not obliged, to participate in its work.

(2). Credit students. These should have had a preparation equivalent to that given in Course 3, are expected to present papers before the class at regular intervals, will pay the usual fee, and will receive the usual credit upon meeting the conditions of the course. As the content of this course is continually changing, it may be taken for credit indefinitely.

One semester hour
Wednesdays 5:10—6:00 MR. LARUE
Room 104

5. SUPPLEMENTARY COMPOSITION AND ORAL WORK. Designed especially to aid credit students

in the Seminar in the preparation and criticism of papers to be there presented, but open to other interested and qualified persons. In addition there will be a certain amount of systematic study of French syntax based upon Armstrong's *Syntax of the French Verb,* Holbrook's *Living French,* Fraser and Squair's *Complete French Grammar,* and other texts.

One semester hour

Wednesdays 4:20—5:10 MR. LARUE

Room 104

NOTE: Hereafter it will be the policy of the French department to limit credit in the Advanced Course to two years, and this only provided the content of the course is different in each of the two years. On the other hand, work in the Seminar is now so arranged that this course may be taken for credit by those who have completed three years of French, and this work is supplemented by a course in oral work and composition designed in particular to aid in the preparation and criticism of papers presented at the Seminar. The following series of courses in French is now available: (1) Beginners; (2) Elementary; (3) Advanced (credit limited to two years), (4) Seminar (no limit on number of years taken for credit), (5) Supplementary Composition and Oral Work.

Geography

1. GENERAL WORLD GEOGRAPHY. A lecture course on the chief world-wide activities emphasizing the relation of industries to environmental factors. Though not treated from an elementary

point of view, the course will be designed primarily to supply basic material on fishing, farming, lumbering, mining, manufacturing and trade for persons teaching general world geography in the junior high school and high school; it will also give basic material on products for persons interested in the geography of regions or continents. The subject matter and treatment do not duplicate previous courses.

Two semester hours

Wednesdays 4:20—6:00 MR. C. F. JONES

Room 207

2. REGIONAL GEOGRAPHY OF THE UNITED STATES. A consideration of the fundamental geographic factors influencing the development of this nation. The relief, climate, soil, native vegetation and mineral resources of the United States have been of tremendous significance in the great human drama enacted during the period of westward expansion, and the establishment of hundreds of industrial enterprises. In the study or teaching of the history or geography of this country, due consideration must be given to the presistent influences of an almost unchanging natural environment. With increases in the pressure of population upon the lands, with the introduction of modern inventions, and with the expansion of foreign trade, new problems confront the nation. It is essential that we should understand and be able to interpret these present domestic problems and the relationships of the United States to the other nations of the world. This course is especially designed to supply basic material for teachers of regional

geography of the United States and the Americas.

Two semester hours

Thursdays 4:20—6:00

Mr. Wallace W. Atwood, Jr.

Room 120

German

Note: One of the chief aims of the courses in German is to enable the students to read and to speak the language with fluency. Mastery can be attained only by practice without a break; and for this reason the German Department is announcing a series of carefully progressing courses extending over the next three years. Students who have little or no knowledge of German should take the Elementary Course this year. Students who are in need of an advanced course now, should write to Mr. Bosshard before September 20; if a sufficient number apply it may be possible to organize an advanced class.

1. Elementary German. This course makes a careful study of the grammatical fundamentals and the close relationship between English and German, but uses abundantly the spoken word for the acquisition of a limited active vocabulary. Reading of easy material designed to acquaint the students with the cultural background of German life. The course is organized as a year course, and students are urged to take both semesters, but it is divisible.

Two semester hours

Tuesdays 4:20—6:00 Mr. Bosshar

Room 106

2. KULTURKUNDE. Intermediate course. This course offers oral and written composition, stress being laid on the fluent use of modern German. The subject matter of the course is old and new material designed to portray in various ways the cultural background of German life inside and outside the boundaries of the German republic. The reading material includes prose selections and lyrics that illustrate some of the aspects of modern German literature.
Two semester hours
Will be offered in 1933-34.

3. CLASSICAL LITERATURE. Advanced reading. Reading and interpretation of classical literature. Special emphasis will be laid on the interpretation of Goethe and his Weltanschauung.
Two semester hours
Will be offered in 1934-35.

4. KONVERSATIONS—UND SINGABEND. Discussions in German; short lectures by German-speaking guests; singing of German songs. Open without fee or credit to all persons who know German sufficiently. The first meeting will be on Monday, October 3, at eight o'clock at the home of Mr. Bosshard, at which time the regular hours of meeting will be fixed.

Sociology

(See **Economics and Sociology**)

INSTRUCTORS

Leland L. Atwood—Head of Department of Modern Languages, Worcester Polytechnic Institute.

W. W. Atwood, Jr.—Assistant Professor of Physiography and Regional Geography.

H. M. Bosshard—Assistant Professor of German.

S. J. Brandenburg—Professor of Economics and Sociology.

P. H. Churchman—Professor of Romance Languages.

L. H. Dodd—Professor of Rhetoric.

D. M. Dougherty—Assistant Professor of Romance Languages.

C. F. Jones—Professor of Economic Geography.

R. S. Illingworth—Associate Professor of English.

E. O. LaRue—Professor in Assumption College.

C. M. Pomerat—Assistant in Biology.

David Potter—Assistant Professor of Biology.

FACULTY COMMITTEE IN CHARGE

S. J. Brandenburg
Vernon Jones
H. P. Little
C. E. Melville
D. C. Ridgley
P. H. Churchman, *Chairman*

CLARK UNIVERSITY
BULLETIN

No. 98 DECEMBER, 1932

COURSES OF COLLEGE GRADE FOR ADULTS

TO BE OFFERED IN THE
SECOND SEMESTER
1932-33

OPEN TO MEN AND WOMEN
COURSES MEET ONCE A WEEK
LATE AFTERNOON AND SATURDAY MORNING

PROGRAM OF COURSES

MONDAY

4:20—6:00	Elementary French. Churchman
4:20—6:00	Intermediate French. Dougherty
4:20—6:00	Human Anatomy. Pomerat
8:00—10:00	Konversations — Und Singabend. Bosshard

TUESDAY

4:20—6:00	Practical French. L. L. Atwood
4:20—6:00	Elementary German. Bosshard
4:20—6:00	Asia and Australia. Van Valkenburg

WEDNESDAY

4:20—5.10	French Composition and Oral Work. La Rue
4:20—6:00	Shakespeare. Illingworth
4:20—6:00	World Geography. C. F. Jones
5:10—6:00	French Seminar. LaRue

THURSDAY

4:20—6:00	Economic and Social Problems. Brandenburg
4:20—6:00	Calculus. Williams

FRIDAY

4:20—6:00	Botany. Potter

SATURDAY

10:00—11:40	American Theater. Dodd

Aim and Character of the Work

Clark University will again offer during the second semester of this academic year (1932-33) a series of courses of college grade for adults. Some of these courses, both in respect to content and time of meeting, are particularly intended for teachers in the schools of Worcester and the surrounding region. Many of them, however, have no such limited objective, but should appeal to the public on the grounds of utility or general culture.

All of these courses are open to mature persons who, in the judgment of the instructor, are suitably prepared. Those who do not desire official records of work done are admitted as "auditors" and are not required to "matriculate." The courses are of college grade and may be used for credit by those who are formally enrolled as candidates for the degree of Bachelor of Education in this University. Candidates for the degree of Bachelor of Arts may include these courses in their programs only when official authorization in advance is secured from the College Board. In similar circumstances candidates for the Master of Arts degree should secure the approval of their major departments in each case.

Date of Opening

Classes will meet for organization and the beginning of work during the week Jan. 30-Feb. 4, 1933, on the day specified in the description of each course.

Attendance at the first meeting and promptness at all classes are highly desirable. Early registration, even before the opening date, will be of assistance in determining which courses

shall be given; those courses for which a good demand is evident early will naturally receive the preference.

Registration and Charges

Registration involves the filling out of an enrollment card and payment of the fee. Students are not enrolled until the *enrollment card and the fee* for each course have been received by the Bursar Those who desire to avoid the delay involved in making payments at the office of the Bursar may enroll by mail.

Tuition charges are $8.00 for a course meeting one hour a week for one semester, and $15.00 for a course meeting two hours a week for one semester

The matriculation fee of $5.00 is a charge for the opening of an official record in the office of the university Recorder. Matriculated students receive official certificates on which credit toward a degree may be granted at Clark University or elsewhere, subject to the standing regulations of the institution to which they may be presented

Class lists for all courses will be closed Feb 18, 1933, and all fees are payable by noon of that date. Enrollment after that date will be possible only in special cases, with the consent of the Recorder.

A late registration fee of one dollar for each week of delay will be charged in all cases when the fee is paid after the above date.

Standards, Credit, Terms of Admission

Only courses of college grade will be given, but students without the conventional preparatory training may be admitted to any course at the discretion of the instructor.

Courses will meet for periods of 50 or 100 minutes. The usual hours for afternoon courses running for 100 minutes will be from 4:20 to 6:00; hours for Saturday and evening courses will be decided by the individual instructors.

Credit. When accepted for undergraduate credit in this University, one semester hour will normally be granted for a two-hour course (100 minutes) meeting 8 times, or a one-hour course (50 minutes) meeting 16 times, and two semester hours for a two-hour course (100 minutes) meeting 16 times.

Regular outside preparation or collateral reading is expected in every course, except in the case of "auditors." This outside work will be similar in amount to the preparation expected in regular undergraduate courses, namely an average of two hours per week for each semester hour of credit in the course. Those who prefer to attend without doing any outside work are welcome, but will be classed as "auditors."

In view of the outside work required it is obviously unwise for students who are otherwise busy to attempt many of these courses at the same time. By vote of the committee in charge of this work, persons who are in any full-time employment will not hereafter be permitted to register at any one time for courses carrying more than four semester hours of credit.

FOR FURTHER INFORMATION, ADDRESS:

LYDIA P. COLBY, *Recorder.*

LIST OF COURSES

NOTE: Any course for which there are fewer than 20 registrations at the time of the second scheduled meeting may be discontinued at the discretion of the instructor in charge.

Biology

1. Botany: The Ferns and Club Mosses. An intensive study of the structure, life-histories and classification of these plants. Special emphasis will be placed on those forms found in our local flora

Two semester hours
Fridays, 4:20-6:00 Mr. Potter.
Room 206

2. Human Anatomy and Physiology. A systematic survey of the organization and the activities of the human body. The work will consist largely of practical laboratory exercises and demonstrations. Emphasis will be placed on techniques useful in the teaching of hygiene. Special attention will be given to the study of systems associated with metabolism, including those affecting gas exchange, nutrition, transportation and elimination, and of the organs specialized for the preservation of the species.

Two semester hours
Mondays, 4:20-6:00
Room 206 Mr. Pomera

Economics and Sociology

Economic and Social Problems. This course considers important problems of recent or current interest and seeks to understand them in the ligh of sound social policy. Particular topics studie will be determined as far as practicable by th desires of students electing the course. The wor is planned to meet the needs of teachers of any of the social sciences, but should be illuminating to all thoughtful persons who have an intelligent interest in our economic and social life. Lectures, required readings, discussions, and written tests.

Two semester hours
Thursdays, 4:20-6:00 Mr. Brandenburg.
Room 115

English

1. The American Theater. The theater in America from Colonial times to the present day. Historic figures on the American stage. Noted American critics of the drama. What the theater was like during Colonial times, what it became during and after the Revolution, and the theater before and after the Civil War. Thomas Godfrey, Royall Tyler, William Dunlap, Anna Cora Mowatt, George Henry Boker, Dion Boucicault, Bronson Howard, William Gillette, Clyde Fitch, Augustus Thomas, Rachel Crothers, Eugene O'Neill and other American playwrights. The winners of the Pulitzer Prize.

The first half of each meeting of the class is given over to a lecture designed especially for auditors, who need remain only for the lecture, and whose fee will be proportionate. The second half of each meeting is devoted to those who wish college credit and from whom are required oral reports and critical papers. There is opportunity also for original playwriting.

Two semester hours
Saturdays, 10:00-11:40 Mr. Dodd.
Room 102

2. Shakespeare. A detailed reading of certain typical plays combined with more rapid reading

of several others with the purpose of developing an appreciation of them as drama. Attention is paid to dramatic technique and to the drama as an interpretation of life.

Two semester hours

Wednesdays, 4:20 MR. ILLINGWORTH.

Room 218

French

1. ELEMENTARY COURSE. A continuation of the work of the first semester, open to new registrants who have had about a year of elementary French. Reading, oral and aural work based on phonetics, grammar, and written exercises. Fraser and Squair's *New Elementary French Grammar* and Jacob Greenberg's *French Silent Reader*.

Two semester hours

Mondays, 4:20-6:00 MR. CHURCHMAN.

Room 104

2. INTERMEDIATE COURSE. Continued reading of literary texts, at least one novel and one play. Grammar review in Richardson, *Outline of French Grammar* (Century). Exercises in comprehension, dictation, and pronunciation. Open to anyone who has successfully completed two years of high school French, or its equivalent.

Two semester hours

Mondays, 4:20-6:00 MR. DOUGHERTY.

Room 218

3. PRACTICAL FRENCH. (ADVANCED). This course is open to anyone who has had the fundamentals of French grammar. Its object is to develop conversational ability and to enable the student to comprehend ordinary spoken French. A survey will be made of the characteristics of the French people and of the cultural contributions of Franc

to the world. The ability to speak French is *not* a prerequisite of the course. May be taken for credit for two years only.
Two semester hours
Tuesdays, 4:20-6:00 MR. LELAND L. ATWOOD.
Room 212

4. SEMINAR. Discussion, usually in French, of current topics in French literature and civilization, and occasionally of some topic connected with the teaching of French. Papers by members of the class. Lectures by the instructor on French Romanticism. This course is open both to credit students and to the general public; the former should have had a preparation equivalent to that given in course 3, and are expected to present papers at regular intervals and to pay the fee; non-credit members of the course pay no fee and are invited, but not obliged, to present papers. This course may be taken for credit indefinitely, as its content is continually changing.
One semester hour
Wednesdays, 5:10-6:00 MR. LARUE
Room 104

5. SUPPLEMENTARY COMPOSITION AND ORAL WORK. Designed especially to aid credit students in the Seminar in the preparation and criticism of papers to be there presented, but open to other interested and qualified persons. In addition there will be a certain amount of systematic study of French syntax.
One semester hour
Wednesdays, 4:20-5:10 MR. LARUE.
Room 104

Geography

1. General World Geography. This course, which continues the work of the first semester but is open to new-comers, is a lecture course on the chief world-wide activities emphasizing the relation of industries to environmental factors. Though not treated from an elementary point of view, the course will be designed primarily to supply basic material on fishing, farming, lumbering, mining, manufacturing and trade for persons teaching general world geography in the junior high school and high school; it will also give basic material on products for persons interested in the geography of regions or continents. The subject matter and treatment do not duplicate previous courses.

Two semester hours
Wednesdays, 4:20-6:00 Mr. C. F. Jones.
Room 120

2. Asia and Australia. Geographical interpretation of Asia and Australia, with special reference to the present economic and political situation. A continuation of the course give in the first semester, but open to newcomers.

Two semester hours
Tuesdays, 4:20-6:00 Mr. Van Valkenburg.
Room 120

German

1. Elementary German. This course is designed to give practical training in German t persons with little or no previous training in the language. It makes a careful study of the grammatical fundamentals and the close relationship between English and German, and uses the spoke word freely for the acquisition of a limited activ vocabulary. Reading of easy material designed t

acquaint the students with the cultural background of German life. New students may enter in the second semester.

Two semester hours
Tuesdays, 4:20-6:00 MR. BOSSHARD.
Room 106

2. KULTURKUNDE. Intermediate course. This course offers oral and written composition, stressing the fluent use of modern German. The subject matter of the course is old and new material designed to portray in various ways the cultural background of German life inside and outside the boundaries of the German republic. The reading material includes prose selections and lyrics that illustrate some of the aspects of modern German literature.

Two semester hours
Will be offered in 1933-34

3. CLASSICAL LITERATURE. Advanced reading. Reading and interpretation of classical literature. Special emphasis will be laid on the interpretation of Goethe and his Weltanschauung.

Two semester hours
Will be offered in 1934-35

4. KONVERSATIONS—UND SINGABEND. Lectures, discussions and singing in German. Open without fee or credit to all persons sufficiently prepared.

Two semester hours
Mondays, 8:00-10:00 P. M. (22 Baker St.)
MR. BOSSHARD.

Mathematics

Calculus for Beginners. As much of Differential and Integral Calculus will be covered as tim permits.

Two semester hours
Thursdays, 4:20-6:00 Mr. William
Room 218

Sociology

See Economics and Sociology.

INSTRUCTORS

Leland L. Atwood—Head of Department of Mo ern Languages, Worcester Polytechnic Institut
H. M. Bosshard—Assistant Professor of Germa
S. J. Brandenburg—Professor of Economics ar Sociology.
P. H. Churchman—Professor of Romance La guages.
L. H. Dodd—Professor of Rhetoric.
D. M. Dougherty—Assistant Professor of Roman Languages.
R. S. Illingworth—Associate Professor of Engli
C. F. Jones—Professor of Economic Geography.
E. O. LaRue—Professor in Assumption College.
C. M. Pomerat—Assistant in Biology.
David Potter—Assistant Professor of Biology.
Samuel Van Valkenburg—Associate Professor Climatology and Regional Geography.
F. B. Williams—Professor of Mathematics.

FACULTY COMMITTEE IN CHARGE

S. J. Brandenburg
Vernon Jones
H. P. Little
C. E. Melville
D. C. Ridgley
P. H. Churchman, *Chairman*

GERMAN

1. **Elementary Course.**	Mr. Bosshard
2. **Konversations—und—Singabend.**	Mr. Bosshard

MATHEMATICS

1. **Calculus for Beginners.**	Mr. Williams

DEPARTMENTAL ANNOUNCEMENTS

Courses offered by the several departments are listed under three headings:

1. Primarily for Undergraduates, designated by numbers beginning with the figure (1).
2. For Graduate Students and Advanced Undergraduates, designated by numbers beginning with the figure (2).
3. Primarily for Graduate Students, designated by numbers beginning with the figure (3).

Brackets [ ] about the announcement of a course indicate that the course is not offered during the current year.

Credit for the first semester alone is given in all courses except in cases where a department, by a note following the description of the course, specifically reserves the right to withhold credit until the second semester of the course is satisfactorily completed.

Any course may be entered at the beginning of the second semester, with the consent of the instructor, by students who are prepared to take up the work of the course at that time.

DEPARTMENT OF ANCIENT LANGUAGES

Professor Brackett

For a major in ancient languages the requirement is twenty-four semester hours from the courses described below.

COURSES IN GREEK

1. Primarily for Undergraduates

[**11. First Year Course.** Divisible only in special cases with the approval of the department and of the College Board.

Open to freshmen.

Three hours, through the year. M. W. F., 10. Mr. Brackett]

12. Xenophon, *Anabasis;* **Homer,** *Iliad*. About ten weeks at the beginning of the year are devoted to reading selections from the *Anabasis*, the principal aim being to increase the student's facility in translation. The remainder of the year is devoted to the *Iliad*.

Open to freshmen.

Three hours, through the year. Tu. Th. S., 10. Mr. Brackett

[**13. The Greek Drama.** Aeschylus, *Prometheus Bound;* Sophocles, *Antigone;* Euripides, *Medea.*
Three hours, through the year. MR. BRACKETT]

[**16b. Greek Tragedy in English.** This course deals with Greek tragedy as represented in the extant works of Aeschylus, Sophocles, and Euripides. All the reading is done in English translations, for the most part in verse.
Three hours, second semester. MR. BRACKETT]

Greek 17. Greek History. This course will cover the period from the beginnings of Greek history to 146 B.C.
Open to freshmen with the consent of the instructor.
Three hours, through the year. M. W. F., 11. MR. BRACKETT

COURSES IN LATIN

1. PRIMARILY FOR UNDERGRADUATES

11. First Year Course.
Open to freshmen.
Three hours, through the year. M. W. F., 10. MR. BRACKETT

12. Cicero, First Oration against Verres, selected Epistles; Selections from **Catullus; Horace,** selected Epodes and Odes.
Open to freshmen.
Three hours, through the year. Tu., 2; Th. S., 8. MR. BRACKETT

[**15a. Selections from Caesar and Cicero.** This course is open to students who have had Latin 11 or its equivalent. The principal aim is to increase the student's ability to read Latin.
Three hours, first semester. MR. BRACKETT]

[**15b. Selections from Ovid's** *Metamorphoses.*
Three hours, second semester. MR. BRACKETT]

[**16a. Lucretius,** *de Rerum Natura*, selections.
Three hours, first semester. MR. BRACKETT]

[**17. Roman History.** This course will deal with the history of Rome from the earliest period to the downfall of the Western Roman Empire, with special emphasis upon those aspects of the history which have permanently influenced western civilization.
Three hours, through the year. MR. BRACKETT]

DEPARTMENT OF BIOLOGY

PROFESSOR HOAGLAND, ASSOCIATE PROFESSOR POTTER,
MR. POMERAT.

Also PROFESSOR HUNTER AND ASSISTANT PROFESSOR GRAHAM
*of the Department of Psychology**

GENERAL STATEMENT

The Department of Biology is on the second floor of the Main Building of the University. The laboratories are well-equipped for the courses offered and contain special equipment for advanced investigations in physiology. In addition, annual funds are available for the purchasing and building of apparatus as it may be required. A small herbarium and a synoptic collection of animals are available for study. The University Library contains complete files of the more important periodicals and reference works. Certain assistantships, fellowships and scholarships are available from time to time.

UNDERGRADUATE WORK

Biology 11 presents a comprehensive view which is prerequisite to all other courses in the department. Courses 12, 14, 15a, 16b, and 17b are planned to give the undergraduate a working acquaintance with fundamental aspects of zoölogy and botany. Course 200 introduces the student to the behavior of living systems.

An undergraduate majoring in biology is expected to complete:

1. Biology 11 and eighteen semester hours in advanced courses, including Biology 12 and 200. Attendance at weekly discussion groups is also expected.
2. Mathematics 10 or 11 and 101 or 12.
3. Physics 11.
4. Chemistry 11.
5. French or German to an amount sufficient to give a good reading knowledge.

Undergraduates who *major* in biology should *minor* in chemistry or in physics. Biology 200, preferably taken in the senior year, brings to a biological focus, in the study of living organisms, many chemical and physical principles.

The departments of chemistry, biology and physics recommend the following program for pre-medical students. Election of an additional course in biology in either the junior or senior year will make possible a major or minor in either biology or chemistry. In any case a student should start his work in chemistry his freshman year. These recommendations do not in any way affect the general requirements of the College which apply to all students in the College.

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*Advanced courses in Psychology given by Professor Hunter and Professor Graham may, with the permission of the chairman of the department, be credited as courses in Biology.

Freshman Year

Chemistry	10 or 11	General Chemistry
Mathematics	10 or 11	
English	11	
A modern language (preferably German)		
A course in Division B		

Sophomore Year

Chemistry	13	Qualitative Analysis
Biology	11	General Biology
Physics	11	General Physics
Mathematics	101 or 12	Calculus
A modern language		

Fine Arts. A required course, given in the second semester.

NOTE: A student must maintain an average rank of 50 in 100 or better during the first semester of the sophomore year in order that he may enroll for a sixth course in the second semester.

Junior Year

Chemistry	19	Physical Chemistry
Biology	12	Vertebrate Anatomy
English		
A course in Division B		
An elective (if the foreign language requirement has been met in full)		

Senior Year

Organic Chemistry
Biology 200
Advanced courses in chemistry, physics, biology, physiology or electives.

GRADUATE WORK

By action of the Board of Trustees, the Department of Biology was reorganized on a full graduate basis beginning in September, 1931. Students whose records are approved by the chairman of the department may be admitted by the Graduate Board for work leading to the degree of Master of Arts in biology or to the degree of Doctor of Philosophy in physiology. The general plan of organization involves a relationship between the Department of Psychology and the Department of Biology whereby students in either department may be credited with certain advanced courses and research in the other. Certain advanced courses in the departments of physics, chemistry and mathematics may also be credited in the Department of Biology.

The general requirements for the master's degree and for the doctorate are stated elsewhere in this catalog. In addition to the general requirements, the department has a supplementary requirement that an additional copy of each doctor's dissertation must be deposited with the department.

The analysis of fundamental activities of living organisms is necessarily undertaken upon the basis of physico-chemical principles. For this reason a foundation in physics, chemistry and mathematics as well as in biology is essential for advanced work in physiology. General physiology bears a relation to medicine similar to that of physics to engineering and in recent years has developed rapidly as a fruitful field of investigation.

COURSES IN BIOLOGY

1. PRIMARILY FOR UNDERGRADUATES

11. General Biology. An introduction to the fundamental principles and problems of biology. Indivisible course.

Open to freshmen.

Three hours, through the year. M. W. F., 10; W., 2.
MR. POTTER AND MR. POMERAT

12. Vertebrate Zoölogy. A study of the morphology of the vertebrates from a comparative standpoint which traces the evolution of animals from fish to mammals. Lectures and laboratory work.

Three hours, through the year. W. F., 9; W. F., 2. MR. POMERAT

13. Seminar in General Biology. Credit is not given for this course. All students in the department are invited to attend and to participate.
STAFF OF THE DEPARTMENT

14. Botany. First semester, morphology and taxonomy of the lower plants. The laboratory work consists of a critical study of types from the most important natural families.

Second semester, systematic botany of the higher plants.

Prerequisite, Biology 11, first semester.

Three hours, through the year. Tu. Th. S., 11; Th., 2. MR. POTTER

15a. Invertebrate Zoölogy. A detailed study of the structure, life history, habits, and distribution of invertebrate types. Two lectures and two laboratory periods per week.

Three hours, first semester. MR. POMERAT

18a. Entomology.
Three hours, first semester. Mr. Potter.

[**16b. Histology.** A comprehensive course dealing with tissue structure. Emphasis is placed on the study of mamalian tissues. Two lectures and two laboratory periods per week.
Three hours, second semester. MR. POMERAT]

17b. Embryology. A consideration of the fundamentals of embryology. Two lectures and two laboratory periods per week.
Three hours, second semester. MR. POMERAT

[**160. Microscopical Technique.** The principles of fixing, sectioning and staining tissues will be worked out in the laboratory.
Hours and credit to be arranged. MR. POTTER]

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

Biology 200. General Physiology. Open to students who have passed Biology 11 and 12a or their equivalents and who satisfy the instructor as to their preparation in physics, chemistry and mathematics. Chemistry 11, Physics 11, and Mathematics 11, or their equivalents are prerequisite. Chemistry 19, second half, is advised.

The course is designed to give the student an acquaintance with the major problems of physiology. The nature of living substance is considered in terms of its component materials and their physico-chemical properties. Three lectures and two laboratory periods per week.
Three hours, through the year. M. W. F., 11, and laboratory periods.
MR. HOAGLAND

[**201a. Parasitism.** A general introduction to the parasitic habit as exhibited by bacteria, fungi, protozoa, worms, and insects. Two lectures and two laboratory periods per week.
Three hours, first semester. MR. POMERAT]

202b. Genetics. An introduction to the principles of genetics.
Three hours, second semester. MR. POTTER

203. Special Problems. Advanced semi-independent study of an approved topic under the direction of a member of the staff.
Hours and credit to be arranged. STAFF OF THE DEPARTMENT

205. Seminar in Experimental Biology. Credit is not given for this course. All students in the department are invited to attend and to participate. STAFF OF THE DEPARTMENT

Psychology 202. Sense Organ Functions. (For description, see announcement of Department of Psychology.)
Two hours, alternate years. MR. GRAHAM

Psychology 203. Reflex Activity. (For description, see announcement of Department of Psychology.) MR. GRAHAM

Psychology 206. Animal Behavior. (For description, see announcement of Department of Psychology.) MR. HUNTER

Psychology 207a. The Learning Process. (For description see announcement of Department of Psychology.) MR. HUNTER

3. PRIMARILY FOR GRADUATE STUDENTS

306. Mechanisms of Reaction (seminar). Mechanisms underlying the behavior of organisms are considered from the standpoint of experimental physiology.
Two hours, through the year. MR. HOAGLAND

307. Readings in Physiology. Open to candidates for the doctorate in physiology. Reading and tutorial conferences on special topics. Credit to be arranged. MR. HOAGLAND

308. Research. Dynamics of Vital Phenomena. Credit to be arranged. MR. HOAGLAND

Psychology 305. Research in Animal Behavior and Sensory Physiology. (For description, see announcement of Department of Psychology). MESSRS. HUNTER AND GRAHAM

Psychology 315. Quantitative Interpretation of Experimental Data. (For description, see announcement of Department of Psychology). MR. GRAHAM

DEPARTMENT OF CHEMISTRY

PROFESSOR MERIGOLD, PROFESSOR WARREN, ASSOCIATE PROFESSOR BULLOCK

Courses in chemistry fall into two groups:

First, those primarily for undergraduates. They furnish a foundation for professional work in chemistry or medicine, and are suitable for students desiring some knowledge of the subject as part of their general education.

Second, those, primarily for graduates, leading to advanced degrees.

UNDERGRADUATE WORK

Students who intend to become professional chemists or to study for an advanced degree in chemistry should *major* in chemistry and *minor* in physics, or take at least two years' work in that subject.

They are advised to conform as closely as possible to the schedule given below.

First year: Chemistry 10 or 11; Mathematics 10 or 11; English 11; social science (Division B) and foreign language.

Second year: Chemistry 13 and 14; Physics 11; English; Fine Arts; and a continuation of work in foreign language.

Third year: Chemistry 15, 110, and 18; Mathematics 101 or 12; an elective.

Fourth year: Five courses, chosen from the following: Chemistry 214, 215, and 218; Physics 14 and 15; an elective. A choice, with reference to future work, should be made after consultation with the chemistry staff.

Those students who intend to enter the field of secondary education should acquaint themselves with the requirements in "education" of state and local licensing boards and prepare to meet these requirements. This may necessitate the omission of certain courses in chemistry scheduled for the third and fourth years.

Students intending to study medicine should consult the statement regarding pre-medical training in the announcement of the Department of Biology.

Attention is called to laboratory fees and breakage deposits listed under the general heading "Laboratory Fees and Deposits."

GRADUATE WORK

The Department of Chemistry provides graduate students with training in the fundamental principles of chemistry sufficiently broad to prepare them adequately for a scientific career.

Requirements for advanced degrees cannot be met merely by pursuing a course of studies or by carrying on an investigation. Hence no definite course of graduate studies is outlined. Ordinarily, completion of the program outlined above will be a prerequisite for graduate work in chemistry.

Students registered for advanced degrees are expected to spend not less than eighteen hours per week in the laboratory. This may include special laboratory work in organic, inorganic, and physical chemistry.

Graduate scholarships and fellowships are available to students in this department.

COURSES IN CHEMISTRY

1. Primarily for Undergraduates

10. Elementary Chemistry. Intended primarily for students who have not previously studied chemistry. Equivalent to course 11 as preparation for advanced courses. Divisible only by consent of the instructor. Open to freshmen who have not studied chemistry in high school.

Three hours, through the year. Tu. Th. S., 9; Th., 2. Mr. Bullock

11. General Chemistry. Chiefly inorganic. Systematic study of the elements and their principal compounds, and the fundamental laws and theories of chemistry. Three lectures, and three hours of laboratory work per week.

Open to freshmen who have studied chemistry in high school.

Three hours, through the year. M. W. F., 11; M., 2. MR. MERIGOLD

13. Qualitative Analysis, Basic and Acid. Chiefly laboratory work, nine hours per week. Occasional lectures, and recitations upon the theories involved. Prerequisite, course 11 or its equivalent.

Three hours, through the year. Tu. F., 2. MR. BULLOCK

14. Quantitative Analysis. Chiefly laboratory work, with occasional lectures, recitations, and problems. Six hours of laboratory work, and one lecture per week. Prerequisite, course 13.

Three hours, through the year. Tu., 3:30; Th., 2. MR. MERIGOLD

15. Elementary Organic Chemistry. Lectures on the fundamental principles of organic chemistry. Prerequisite, course 11 or its equivalent. Course 13 is also recommended.

Three hours, through the year. M. W. F., 8. MR. WARREN

18. Physical Chemistry. Two lectures and three hours of laboratory a week, introducing the student to the principal chapters of modern chemical theory. Prerequisite, Chemistry 11 or its equivalent and 14, and Physics 11. Divisible only by consent of the instructor.

Three hours, through the year. Tu. Th., 10; F., 2. MR. BULLOCK

19. Elementary Physical Chemistry. Lectures, recitations and problems on the theoretical aspect of chemistry including gases, liquids, solids, solutions and equilibria. Prerequisite, Chemistry 13.

Three hours, through the year. Tu. Th. S., 10. MR. BULLOCK

110. Organic Synthesis and Analysis. Laboratory work in the preparation of typical organic compounds. Course 110 should be taken, if possible, in connection with course 15. Nine hours of laboratory work per week. Open only to students who take or have taken courses 13, 14 and 15.

Three hours, through the year. M. Th. 2. MR. WARREN

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

[208. Physical and Inorganic Chemistry. Lectures and laboratory work, nine hours per week. Prerequisites, Mathematics 101 or 12, Chemistry 14 and 18.

Three hours, through the year. F., 2, and additional hours to be arranged.

New course to be offered in 1933–34. MR. BULLOCK]

212b. History of Chemistry. Outline of the historical development of the science, and the relation of chemistry to other sciences at various periods of development. Lectures, collateral reading, reports and thesis. Open to graduate students and seniors who take or have taken Chemistry 15 and 18 or equivalent courses.
Three hours, second semester. Tu. Th., 11. MR. MERIGOLD

214. Advanced Quantitative Analysis (including gas analysis). Prerequisite, course 14. Lectures and laboratory work, nine hours per week.
Three hours, through the year. Tu. Th., 2. MR. MERIGOLD

215. Advanced Organic Synthesis. The preparation of more difficult organic compounds. Prerequisite, course 110.
Three hours, through the year. M. Th., 2, and an additional laboratory period. MR. WARREN

216. Journal Reading. Practice in reading current chemical literature.
Two hours, through the year. Tu. F., 4. MR. WARREN

[**217. Intermediates and Dyestuffs.** Methods of preparation, properties and uses of the commoner intermediates followed by a study of typical dyestuffs. Lectures, collateral reading, reports and thesis. Open to graduate students and undergraduates who take or have taken course 15.
Three hours, through the year. MR. BULLOCK]

218. Advanced Organic Chemistry. (To be replaced by Chemistry 33 in 1933–34.) Lectures on selected subjects in organic chemistry.
Two hours, through the year. Tu. Th., 8. MR. WARREN

3. PRIMARILY FOR GRADUATE STUDENTS

32. Advanced Theoretical Chemistry. Discussion of the principles underlying the transformation of matter and of the conditions for equilibrium in various systems.
Three hours, through the year. Tu. Th. F., 9. MR. MERIGOLD

35. Seminar. Staff and graduate students. Reports on research work being carried on in the laboratory and report and discussion of recently published work in related fields.

Once a week, through the year. W., 5. STAFF OF THE DEPARTMENT

314. Research in Physical and Inorganic Chemistry. MR. MERIGOLD

315. Research in Organic Chemistry. MR. WARREN

318. Research in Organic and Physical Chemistry. MR. BULLOCK

DEPARTMENT OF ECONOMICS AND SOCIOLOGY

PROFESSOR BRANDENBURG, ASSOCIATE PROFESSORS MAXWELL AND LUCAS, ASSISTANT PROFESSOR SHANKWEILER

The first aim of the department is to give students some systematic knowledge of the organization and functions of our economic and social order. But this cultural objective is not exclusive. Many of the courses in economics have a vocational aspect and should receive the attention of students looking forward to business or professional careers.

The courses in sociology provide training in the fundamental concepts and methods of the science and lead the student toward the solution of problems faced by every citizen in his social relationships. They aim to stimulate appreciation by the student of the work of specialists in many fields and of their contributions to problems of human welfare.

Economics 11 is a prerequisite to all other courses in economics, with the possible exception of Economics 14a and 14b, and is required of all majors in the department. Sociology 11 is a prerequisite to further work in sociology. The more advanced courses in the department are alternated so as to permit wider election by upper-classmen. Undergraduates majoring or minoring in the department are urged to take the introductory course in their sophomore year.

GRADUATE WORK

The department regularly offers courses leading to the master's and doctor's degrees. Students expecting to enter upon advanced work should have creditably mastered basic courses in the field equivalent at least to the ordinary undergraduate *major*, i.e., twenty-four semester hours; those whose preparation is inadequate should expect to make good the deficiency before proceeding to study for a higher degree.

A sufficient range of courses will be offered in cycles of two or three years so that graduate students may be adequately prepared for candidacy for the doctorate in this department. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work; undergraduate students in courses of the intermediate group will be expected to do work of substantially graduate caliber.

Fellowships, scholarships, and other aids are available to students in the department; also a limited number of assistantships, carrying a modest stipend, are awarded to worthy students.

Attention is directed to closely allied courses offered in geography, history and international relations, and psychology.

COURSES IN ECONOMICS

1. PRIMARILY FOR UNDERGRADUATES

10a. Social Science Survey. An introduction to methods and materials of the social sciences preparatory to later work in these fields.
Indivisible course.
For freshmen; others will receive reduced credit.
Three hours, through the year. M. W. F., 9. MR. BRANDENBURG

11. Principles of Economics. An introduction to the fundamental economic principles, together with a study of the practical application of these principles in the problems of American life. Economics 10 is desirable but not required as a prerequisite.
Indivisible course.
Three hours, through the year. Tu. Th. S., 10. MR. LUCAS

13. Money, Banking, and the Business Cycle. Indivisible course.
Three hours, through the year. M. W. F., 9. MR. MAXWELL

14a. Economic History of Western Europe since 1700.
Three hours, first semester. To be omitted in 1933–34. M. W. F., 10. MR. MAXWELL

14b. Economic History of the United States.
Three hours, second semester. To be omitted in 1933–34. M. W. F., 10. MR. MAXWELL

[**15b. Public Finance.**
Three hours, second semester. M. W. F., 10. MR. MAXWELL]

[**16a. Statistical Analysis.** Primarily for students of Economics and Sociology.
Three hours, first semester. M. W. F., 10. MR. MAXWELL]

117. Principles of Accounting. The organization and use of financial records, with emphasis on their interpretation rather than on the technique of procedure.
Indivisible course.
Three hours, through the year. Tu. Th., 11; Th., 2–4. MR. LUCAS

[**18. Business Organization and Business Finance.** A unified year's work in the structure of modern industry, the financial practices of corporations, and the problem of social control. The second half of this course is open only to students who have completed the first half.
Three hours, through the year. Tu. Th. S., 9. MR. LUCAS]

2. For Graduate Students and Advanced Undergraduates

[**22. Labor Problems.**
Three hours, through the year. M. W. F., 11. Mr. Brandenburg]

210a. Economic and Social Reform. The historical and critical study of various programs. Prerequisite, Economics 14.
Three hours, first semester. M. W. F., 11. Mr. Brandenburg

211b. Contemporary Reform Movements. A continuation of Economics 210a into special fields for selected students. Prerequisite, Economics 210a.
Three hours, second semester. To be omitted in 1933–34. M. W. F., 11.
Mr. Brandenburg

[**25b. Problems in Public Finance.** Prerequisites, Economics 13 or 15b.
Three hours, second semester. Mr. Maxwell]

27a. International Trade and International Finance. The nature, theoretical basis, methods of financing, and governmental control of the international movement of goods. Economics 13 desirable.
Three hours, first semester. To be omitted in 1933–34. Tu. Th. S., 11.
Mr. Lucas

28. Research in Selected Economic Problems. Limited enrollment; consent of the instructor required.
Credit and hours to be arranged. Mr. Lucas

29b. Economics of Transportation. History and present status of rail, water, and highway transport; rate-making; public regulation, government operation, and chief problems of the present.
Three hours, second semester. To be omitted in 1933–34. Tu. Th. S., 9.
Mr. Lucas

3. Primarily for Graduate Students

31. International Economic Policies.
Two hours, through the year. M., 7–9. Mr. Brandenburg

38a. History of Economic Thought to the End of the 18th Century.
Three hours, first semester. To be omitted in 1933–34. M. Th., 4:30–6.
Mr. Maxwell

38b. Modern Economic Thought. Attention will be given rather to the history of thought than to analytical criticism of specific doctrines.
Three hours, second semester. To be omitted in 1933–34. Mr. Maxwell

[**39. Value and Distribution.**
Three hours, through the year. M. Th., 4–5:30. Mr. Maxwell]

311. Seminar in Economics and Sociology. Fortnightly round-table on investigations by members of the Seminar. Occasional outside speakers. All graduate students in the department are expected to attend.

Second and fourth Thursdays of each month at 7:30.

THE STAFF OF THE DEPARTMENT

COURSES IN SOCIOLOGY

The introductory course, Sociology 11, is prerequisite to all other courses in sociology. Following Sociology 11 is a group of semester courses which are offered in three sequences of a first semester course followed by a course meeting at the same hour in the second semester. Course 27b may be offered in place of 26b, or as an additional course, depending on the apparent demand.

Two of the three sequences of courses are offered each year, according to the following schedule.

	Offered	Omitted
Courses 21a and 22b	1933–34; 1934–35	1932–33
Courses 23a and 24b	1932–33; 1934–35	1933–34
Courses 25a and 26b	1932–33; 1933–34	1934–35

1. PRIMARILY FOR UNDERGRADUATES

(See also Economics 10)

11. Introduction to Sociology. Analysis of limiting and directive factors in social behavior and of the major social processes and social problems. Open to sophomores, juniors and seniors. Sociology 11, or its equivalent, is a prerequisite to all other courses in sociology. Indivisible course.

Three hours, through the year. Tu. Th. S., 11. MR. SHANKWEILER

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

(See also Economics 210b and Economics 22)

[21a. The Family. The family in social evolution; its changing functions in modern urban society, resultant disorganization, and conservation measures.

Three hours, first semester. Tu. Th. S., 9. MR. SHANKWEILER]

[22b. Urban Sociology. A study of the growth, structure, function, and control of modern cities. Individual and class investigation of local urban problems.

Three hours, second semester. Tu. Th. S., 9. MR. SHANKWEILER]

23a. Survey Course in Social Work. Development of social work practices in relation to socio-economic changes with particular reference to local organizations and methods. Field trips and individual research projects required.
Three hours, first semester. To be omitted in 1933–34. M. Tu., 3–4:30.
MR. SHANKWEILER

24b. Community Organization. Primarily a study of the interrelationships of organized groups including an evaluation of various programs for securing community solidarity.
Three hours, second semester. M. Tu., 3–4:30.
To be omitted in 1933–34. MR. SHANKWEILER

25a. Poverty and Dependency. Measurement and interpretation of causative factors: a brief consideration of the principal remedial and preventive aspects of treatment.
Three hours, first semester. Tu. Th. S., 9. MR. SHANKWEILER

[**27b.** (**Education 27b**) **Educational Sociology.** The school in relation to society: evidences of cultural lag; trend toward socialization of curriculum and administration as adjustments to social change.
Three hours, second semester. MR. SHANKWEILER]

26b. Criminology. A study of criminal behavior: its extent, nature, causation, treatment. Field trips and individual investigations.
Three hours, second semester. Tu. Th. S., 9. MR. SHANKWEILER

3. PRIMARILY FOR GRADUATE STUDENTS

(See also Economics 311)

31. History of Sociology in the United States. Intended for graduate students of the social sciences, particularly for those majoring in Sociology. Conference method. Work adapted to individual need. Credit granted on basis of work done. MR. SHANKWEILER

32. Sociology Seminar. Intended for students of graduate standing working on research projects. Credit granted on basis of work done.
MR. SHANKWEILER

COURSES IN EDUCATION

FACULTY COMMITTEE ON COURSES IN EDUCATION

ASSOCIATE PROFESSOR JONES, *Chairman*, PROFESSOR CHURCHMAN,
PROFESSOR RIDGLEY, ASSOCIATE PROFESSOR ILLINGWORTH

By vote of the Faculty a standing committee on "courses in education" has been established to "enlarge the number of courses offered in that field and to assume the administrative responsibility that a department would have in the conduct of such work, with the understanding that the committee is responsible to the Faculty." In organizing such courses the committee has two objectives in mind: first, to offer courses from which undergraduate students who plan to enter the teaching profession may elect up to 18 semester hours in the field of education; second, to offer courses to meet the needs of graduate students who are preparing for teaching.

COURSES FOR UNDERGRADUATES

Following the general principle that college students who are preparing to enter the teaching profession should secure a thorough background in the subjects which they expect to teach before they enter professionalized courses in education, the committee has ruled that the completion of two years of college work be a prerequisite for all the courses in education listed below. Twelve semester hours of credit in the subject involved is a prerequisite for all special-methods courses. (Additional prerequisites are stated in certain courses.) These special methods courses are given by specialists in the various subject matter fields; this practice conforms with the committee's view that methods of teaching a subject must be taught in connection with the content in that subject. In addition to the special methods courses, foundation courses are offered in as many of the different content-fields in education as possible.

The first five courses listed below should be considered as giving a general background for other more specialized courses in the field of education. A student expecting to elect only one or two courses in education should in general limit his choice to this group. A student expecting to elect twelve or more semester hours in education should include in his program three or more courses from this group.

COURSES FOR GRADUATE STUDENTS

Certain courses in education are open to graduate students of various departments. The Graduate Board has ruled that a graduate student who is definitely preparing to teach in secondary schools may, with the approval of his major department, elect one or two courses in education which may count toward the course requirement for a master's degree. All of the courses announced below, with the exception of course 17b, are open under this regulation to properly qualified graduate students.

COURSES IN EDUCATION

Education 14a (Psychology 14a). Educational Psychology. A study of psychology as it bears upon the problems of education.

Three hours, first semester. W. Th. F., 12. MR. JONES

Education 15b (Psychology 15b). Individual Differences and Exceptional Children. The course will include a study of the bright, the dull, the psycho-neurotic, and the delinquent child.

Three hours, second semester. W. Th. F., 12. MR. JONES

Education 16a (Psychology 16a). Principles of Education. A survey of the aims, responsibilities, and general methods in education.

Three hours, first semester. To be given in the second semester after 1932–33. W., 2–4; Th., 2–3. MR. JONES

Education 17b (Psychology 17b). Philosophical and Historical Foundations of Modern Education. A study of the rise and philosophical bases of modern educational policies and practices.

Three hours, second semester. Offered in 1932–33 and in alternate years. After 1932–33 it will be given in the first semester. W., 2–4; Th., 2–3. MR. JONES

[**Education 19a (Psychology 19a). Psychology of Character.** A survey and critical evaluation of the experimental evidence in the field and its application to education for character and citizenship. This course will require practice teaching in the form of oral reports from all undergraduate students. (Graduate students may be excused from this requirement, registering for a two-hour course and attending only the two hour meeting on Saturday.)

Three hours, first semester. To be offered in 1933–34 and in alternate years. Th., 11–12; S., 11–12:45. MR. JONES]

[**Education 101a (French 101a). The Teaching of Modern Languages.** A study of the major problems in the teaching of French. Incidental references will be made to German and Spanish. Prerequisite, third-year college French or German course, taken previously or at the same time.

Three hours, first semester. To be offered in 1933–34 and in alternate years. Tu. Th. S., 11. MR. CHURCHMAN]

[**Education 144a (English 144a). The Teaching of English.** Methods of teaching poetry, drama, novel, short story, essay, oral and written composition. Prerequisite, at least 12 semester hours of English on college level.

Three hours, first semester. MR. ILLINGWORTH]

[**Education 27b (Sociology 27b). Educational Sociology.** The school in relation to society; evidences of cultural lag; trend toward socialization of curriculum and administration as adjustments to social change. Prerequisite, Sociology 11.

Three hours, second semester. Hours to be arranged. MR. SHANKWEILER]

Education 29b (Geography 29b). Geography in Education. A survey of geography in the present-day American school system, including elementary and secondary schools, teacher-training institutions, colleges and universities. Prerequisite, geography courses totaling at least 18 hours.
Three hours, second semester. Tu. Th. S., 8. MR. RIDGLEY

Education 313a (Psychology 313a). Advanced Educational Psychology: Group Methods of Experimentation. The purpose of the course will be primarily to give practice in the most valuable statistical methods for psychological experimentation.
Two hours, first semester. Tu., 4:20. MR. JONES

Education 314b (Psychology 314b). Advanced Educational Psychology: Tests and Measurements. A systematic and critical survey of psychological and educational tests. Both theoretical and applied aspects of testing will receive consideration.
Two hours, second semester. Tu., 4:20. MR. JONES

DEPARTMENT OF ENGLISH

PROFESSOR AMES, PROFESSOR DODD, ASSOCIATE PROFESSOR ILLINGWORTH, ASSISTANT PROFESSOR BAKER

Prescribed work in English consists of English 11, required of all freshmen, and 6 additional semester hours of English literature or composition, to be completed by the end of the junior year. A *major* in English consists of twenty-four semester hours, exclusive of English 11. A *minor*, of eighteen semester hours, exclusive of English 11. (Beginning with the class of 1936)

The Appreciation of the Fine Arts, given by Professor Dodd, is a requirement for all students, to be completed in either the freshman or the sophomore year. This course is not counted in fulfillment of requirements in English.
3 sem. hrs. of Public Speaking may be included in a major or minor in English.

THE PRENTISS CHENEY HOYT PRIZE IN POETRY

A prize of fifteen dollars is awarded annually by the Department of English for the best poem by an undergraduate. This is the interest on a fund established by the alumni as a memorial to Prentiss Cheney Hoyt, Professor of English at Clark University from 1909 to 1920.

COURSES IN ENGLISH

1. PRIMARILY FOR UNDERGRADUATES

11. English Composition. The emphasis throughout the year is on the expository form in writing. Required of freshmen.
Three hours, through the year. Tu. Th. S., 9, 11 and 12. MR. BAKER

12a. Public Speaking. A course in the composition and delivery of speeches and practice in impromptu speaking. The aim of the course is to train the student to think logically and to speak simply and effectively when on his feet.
Three hours, first semester. M. W. F., 9. MR. ILLINGWORTH

13b. Shakespeare. A general survey of Shakespeare's works, including the reading and class discussion of twenty plays. Prerequisite, English 11.
Three hours, second semester. Tu. Th. S., 10. MR. AMES

14b (143b in 1933–34 and thereafter). **Argumentation and Debating.** A systematic study of the principles and practice of argumentation.
Three hours, second semester. M. W. F., 9. MR. ILLINGWORTH

15a. A Survey of English Literature. A course in English literature from its beginning to the end of the seventeenth century. Prerequisite, English 11.
Three hours, first semester. M. W. F., 10. MR. AMES

16b (142b in 1933–34 and thereafter). **Advanced Composition and Creative Writing.** The student is allowed to specialize in one or more literary forms. Open to students who have attained high standing in English 11.
Three hours, second semester. M. W. F., 10. MR. ILLINGWORTH

[**17a. The Romantic Movement in English Literature.** Prerequisite, English 11.
Three hours, first semester. M. W. F., 10. MR. AMES]

18a. The Bible as Literature. Prerequisite, English 11.
Three hours, first semester. Tu. Th. S., 10. MR. AMES

19b. English Literature of the Eighteenth Century. Prerequisite, English 11.
Three hours, second semester. M. W. F., 10. MR. AMES

110b. Nineteenth Century Poetry. A study of English poetry from Tennyson to Kipling. Prerequisite, English 11.
Three hours, second semester. W. F., 12. MR. AMES

[**111. American Literature.** Readings in American Literature, from the Colonial period to the present day. The course may be elected for the year or for the first semester only.
Open to freshmen with the approval of the instructor.
Three hours, through the year. Tu. Th. S., 12. MR. AMES]

112. The Modern Essay. A study of English and American essays from 1820 to the present day, with appropriate collateral reading in fiction.

The course may be elected for the year or for the first semester only. Prerequisite, English 11.

Three hours, through the year. Tu. Th. S., 12. MR. AMES

113a. Modern English Drama. A study of contemporary English dramatists.

Open to freshmen.

Three hours, first semester. MR. DODD

114b. Elizabethan and Restoration Drama. The plays by Shakespeare's distinguished contemporaries and his successors of the Restoration.

Three hours, second semester. Tu. Th. S., 9. MR. DODD

[**121a. Biography and Letters.** The biography, autobiography and correspondence of distinguished authors, painters and sculptors, from the eighteenth century to the present. This course is open only to upper classmen who are proficient in English.

Three hours, first semester. M. W. F., 9. MR. DODD]

122a. Modern Poetry. A study, in representative contemporary poets, of the new tendencies in verse. Opportunity is afforded for original verse composition. Open only to upper classmen who are proficient in English.

Three hours, first semester. M. W. F., 9. MR. DODD

[**123a. The 19th Century Novel in England.** A study of the important novelists from Scott to Hardy.

Open to freshmen with the approval of the instructor.

Three hours, first semester. MR. BAKER]

[**124a. American Drama.** A study of the American drama from colonial times to the present.

Open to freshmen.

Three hours, first semester. MR. DODD]

[**125a. The Short Story.** Representative short stories in English and American literature.

Open to freshmen.

Three hours, first semester. Tu. Th. S., 9. MR. DODD]

126b. Modern Continental Drama. A companion course to Modern English Drama.

Three hours, second semester. M. W. F., 9. MR. DODD

[**130a. The Modern Novel in England.** A successive course to the Nineteenth Century Novel. Ten representative novels, beginning with Samuel Butler, are read.

Three hours, first semester. MR. BAKER]

[**131a. The Rise and Development of the English Novel.** A study of the novel from pre-Elizabethan origins to Walter Scott.

Three hours, first semester. M., 8; W. F., 12. MR. BAKER]

140. Appreciation of Literature. Literary interpretation and intensive analysis of prose, poetry, and dramatic forms.

Three hours, through the year. M. W. F., 9. MR. ILLINGWORTH

[**144a (Education 144a). The Teaching of English.** Methods of teaching poetry, drama, novel, short story, essay, oral and written composition. Prerequisite, at least twelve semester hours of English on college level.

Three hours, first semester. A new course, to be offered in 1933–34. MR. ILLINGWORTH]

FINE ARTS

1b. Fine Arts. A course in the appreciation of painting, sculpture and architecture. Illustrated lectures, assigned readings, field trips. This course is not counted in fulfillment of the requirement in English.

Three hours, second semester. M. W. F., 9. MR. DODD

DEPARTMENT OF GEOGRAPHY

A complete statement of the aims and the scope of the courses in geography and the related subjects, physiography, meteorology and climatology, will be found in the announcement of the Graduate School of Geography.

DEPARTMENT OF GEOLOGY

PROFESSOR LITTLE

1. PRIMARILY FOR UNDERGRADUATES

12. General Geology. A study of the origin of scenery, the classification of rocks, the structure of the earth, the geography of the past, and the evolution of life. Three recitations and one laboratory period or field trip weekly. Attendance on one out-of-town field trip lasting two days or more is required.

Indivisible course.

Three hours, through the year. M. W. F., 8; Th., 2. MR. LITTLE

The following courses are offered occasionally on special request of four or more students.

121a. Crystallography, Mineralogy, and Blowpipe Analysis. An elementary course on the identification of minerals by their geometrical, physical and chemical properties. Two class meetings and one laboratory period weekly.

Three hours, first semester. MR. LITTLE

122b. Economic Geology. A study of the origin of the deposits of useful minerals and a discussion of their more important occurrences throughout the world. Elementary chemistry and geology provide a desirable preparation for this course. Two class meetings and one laboratory period weekly.

Three hours, second semester. MR. LITTLE

DEPARTMENT OF GERMAN

PROFESSOR RANDOLPH, ASSOCIATE PROFESSOR BOSSHARD

The Department of German provides the necessary courses for those who wish to use this language in meeting the general requirement in foreign language, and also provides opportunity for those who wish to take this language as a *major* subject. A *major* in German consists of at least twenty-four semester hours selected from the courses announced here. The courses beyond the second year level are usually offered alternately in successive years.

German 11 offers to those who have not previously studied German an opportunity to begin that language in college. German 12 provides a means of meeting the requirements of a course of second year college grade in foreign language. A full year course or two semester courses with numbers above 12 should be taken by those who plan to offer German in fulfillment of the requirement of at least three years' credit in some foreign language.

COURSES IN GERMAN

1. PRIMARILY FOR UNDERGRADUATES

11. Elementary German. Pronunciation and grammar; composition; reading of easy prose. Indivisible course.

Open to freshmen.

Three hours, through the year. Two sections, M. W. F., 8 and 9.

MR. BOSSHARD

12. Second Year German. Thorough review of grammar essentials, with the careful reading of several easy pieces of modern prose. A continuation of German 11.

Open to freshmen.

Three hours, through the year. Two sections, Tu. Th. S., 9 and 12.

MR. RANDOLPH

13. Advanced Reading and Composition. The object of the course is to develop further the ability to read with accuracy and ease. German 12 or its equivalent is a prerequisite.

Open to freshmen.

Three hours, through the year. Tu. Th. S., 11. MR. RANDOLPH

[14. **Introduction to the Study of German Literature.** Particular attention is paid to the writers of the classical period; lectures treat the history of German literature in outline from the earliest times down to the end of the eighteenth century. German 12 or its equivalent is a prerequisite.
Open to freshmen.
Three hours, through the year. MR. RANDOLPH]

16a. Scientific German. Topics in geography, history, sociology and psychology. Prerequisite, German 13 or special examination.
Three hours, first semester. Tu. Th. S., 8. MR. BOSSHARD

16b. Scientific German. Topics in chemistry, physics, and biology. Prerequisite as for 16a.
Three hours, second semester. Tu. Th. S., 8. MR. BOSSHARD

18. Practice in Speaking and Writing German. The course is conducted in German. Prerequisite, German 13, or its equivalent.
Three hours, through the year. MR. BOSSHARD

[**191. Contemporary German Literature.** Lectures, reading. In the beginning the course is conducted in English, but in the second semester in German.
Three hours, through the year. MR. BOSSHARD]

192a. Lyric Poetry. A survey of German lyric poetry in its principal representatives. Prerequisite, German 12, or equivalent.
Three hours, first semester. M. W. F., 11. MR. BOSSHARD

193b. Geothe's Faust. A study of its genesis as it reflects the poet's own development and the evolution of literary and philosophic currents of his time, and a study of its message. Prerequisite, German 13, 16, 192a, or special examination.
Three hours, second semester. M. W. F., 11. MR. BOSSHARD

Konversations-und-Singabend. Lectures, discussions, and singing in German. Open without credit to all students. Through the year. M., 8–10 p. m. MR. BOSSHARD

DEPARTMENT OF HISTORY AND INTERNATIONAL RELATIONS

PROFESSOR BLAKESLEE, ASSOCIATE PROFESSOR LEE, ASSOCIATE PROFESSOR JORDAN, MR. BILLINGTON

UNDERGRADUATE WORK

The aim of the department in its undergraduate work is to give in its several courses a broad knowledge of the more significant aspects of the growth of the leading countries of the world. This includes the study not only of the important facts, but more especially of the processes of development in government, diplomacy, society, business, religion, science, and education.

Course 11, primarily for freshmen, is open to members of all classes; courses 15, 17 and 18 are open to sophomores, juniors and seniors, although History 11 or its equivalent will normally be required as a prerequisite for courses 15, 16 and 18.

GRADUATE WORK

The distinctive feature of the graduate work is the emphasis it places upon the various aspects of international relations. Without neglecting investigation in the economic, political, and social life of preceding centuries, it makes an especial study of the problems and the difficulties constantly arising in the international relations and diplomacy of the family of states. The field includes not only the United States and the nations of Europe, but also the newer and rapidly developing states of Asia, Latin America, and Africa.

THE DOCTORATE

The various courses offered in the department are so arranged, in cycles of two or three years, that students working for their doctorate will be enabled to secure a full program each year. A feature of the method of instruction in the department is the frequent informal conferences between instructor and student, and the Seminar method in many of the courses.

The following courses in related departments may advantageously be taken to supplement major work in the Department of History and International Relations: Geography of North America (Geog. 181b); Geography of Europe (Geog. 185b); Geographic Aspects of United States Foreign Trade (Geog. 362b); General Principles of Human Geography (Geog. 37a); Geography of Europe (Geog. 375a); Caribbean America (Geog. 383b); South America (Geog. 384a); Economic History (Ec. 14); International Economic Policies (Ec. 31); Social Psychology (Psy. 311).

COURSES IN HISTORY AND INTERNATIONAL RELATIONS

1. Primarily for Undergraduates

11. Introduction to the History of Europe. The course covers the period from the fall of Rome to the present time, and serves as a general introduction to further historical study. Indivisible course.

Open to freshmen.

Three hours, through the year. Tu. Th. S., 10. Mr. Lee

15. History of England. A general course forming a background for American history and an introduction to an understanding of Britain's place in the present world. Lectures, text-books, collateral reading and quizzes.
Three hours, through the year. M. W. F., 10. MR. JORDAN

17. American History Since 1783. After a brief survey of the American Revolution, the course will treat carefully the period since 1783. Divisible only in special cases with the approval of the department.
Three hours, through the year. Tu. Th. S., 9. MR. BILLINGTON

18. A Survey of International Relations. A general survey of the whole field of international relations which will furnish a foundation for further and more specialized work.
Three hours, through the year. M. W. F., 9. MR. BLAKESLEE

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

20b. Europe Since 1870. The internal and external development of the major European nations with special emphasis on the period from 1914 to the present.
Three hours, second semester. Tu. Th. S., 11. MR. LEE

22. The Pacific and the Far East. The course deals especially with China, Japan, Russia in Asia, and the islands of the Pacific.
Three hours, through the year. M. W. F., 10. MR. BLAKESLEE

[**24. Modern France.** The course, beginning with the period of the Renaissance, surveys with greater detail than is possible in History 11 the history of France to the present time.
Three hours, through the year. Tu. Th. S., 11. MR. LEE]

[**25a. British India.** A survey of European rivalry in India, the work of the East India Company, the development of administration by the crown, and recent developments toward self-government.
Two hours, first semester.]

[**27. Latin America.** A survey of the history of the various Latin American countries with emphasis upon the relations with the United States.
Three hours, through the year. MR. BLAKESLEE]

28. History of the British Empire. Most of the course will deal with developments and problems since 1870.
Three hours, through the year. M. W. F., 9. MR. JORDAN

29a. Russia. The aim of this course is to present Russian internal development from the origin of the Kievan state to the present time with special emphasis on the revolution of 1917 and the Soviet régime since that date.
Three hours, first semester. Tu. Th. S., 11. MR. LEE

201. Social and Intellectual History of the United States. The evolution of American life from the Revolution to the present day, with emphasis upon the social customs, economic influences, racial contributions, religious beliefs, and humanitarian movements.
Three hours, through the year. Tu. Th. S., 10. MR. BILLINGTON

[213. Constitutional History of the United States. The Constitution is treated as a growing organism, responsive to the changing political, social and economic conditions of the country.
Three hours, through the year.]

[241a. The United States Since 1865. A synthesis of the political, social and economic forces in the development of the United States since the Civil War. Prerequisite, History 17 or its equivalent.
Three hours, first semester.]

[242. American Colonial History to 1776. The European background of American history, the colonial period, and the American Revolution. Prerequisite, History 17 or its equivalent.
Three hours, through the year.]

3. PRIMARILY FOR GRADUATE STUDENTS

31. International Law. A general course adapted for advanced students who will do a large amount of independent reading.
Two hours, through the year. M., 3–5. MR. BLAKESLEE

[32. Recent International Relations of the United States. A lecture and research course covering the period from the Civil War to the present.
Two hours, through the year. MR. BLAKESLEE]

322a. Selected Topics in Recent British History. Aspects of the period since 1815 will be dealt with but the ground covered will change somewhat from year to year.
Two hours, first semester. M. W., 4. MR. JORDAN

331. European International Relations Since 1870. A study of the diplomatic history of Europe from the Congress of Berlin to the Locarno agreements, 1925.
Two hours, through the year. Th. 3–5. MR. LEE

[333a. Topics in the Recent and Contemporary History of Continental Europe. The course will consist chiefly of research by the individual student in problems confronting the European countries at the present day.
Two hours, first semester. MR. LEE]

342. The Influence of Westward Expansion in American Development. The westward movement from colonial times to the passing of the frontier will be discussed in detail.
Two hours, through the year. Tu., 3–5. MR. BILLINGTON

35b. Tudor and Stuart England. A survey for mature students of the period from 1485 to 1688.
Two hours, second semester. W., 4–6. Mr. Jordan

351. Research in the International Relations of the United States. Mr. Blakeslee

352. Research in the International Relations of the Pacific and the Far East. Mr. Blakeslee

353. Research in the History and International Relations of the British Empire. Mr. Jordan

354. Research in the History and International Relations of Continental Europe. Mr. Lee

355. Research in the History of the United States. Mr. Billington

36. Seminar. The students in the department meet each week to study particular topics in international relations and to consider the results of investigation carried on in the department.
Weekly, through the year. Tu., 7.
Messrs. Blakeslee, Lee, Jordan, and Billington

DEPARTMENT OF MATHEMATICS

Professor Williams, Associate Professor Melville

The undergraduate courses are designed to furnish a practical knowledge of fundamental methods of mathematics which will be useful in the affairs of life, in business, and in the pursuit of the sciences as well as to prepare students for more advanced study in mathematics.

A *major* in mathematics consists of twenty-four semester hours, including courses 13 and 14; a *minor* consists of eighteen semester hours, including course 12 or its equivalent.

Mathematics 10 or 11 is required of all students who expect to elect a *major* in Division A (the natural sciences and mathematics).

MATERIAL FACILITIES

The Library is provided with the more important text-books, treatises, and memoirs on the various branches of mathematics, as well as the principal journals and transactions of learned societies that are devoted to any considerable extent to mathematics. The department possesses a good collection of models in addition to an adequate instrumental equipment for the work in applied mathematics.

COURSES IN MATHEMATICS

1. PRIMARILY FOR UNDERGRADUATES

10. Elementary Course. Algebra, trigonometry and analytic geometry, with emphasis on the development of ability to think in mathematical terms. More elementary than course 11.

Open to freshmen.

Three hours, through the year. M. W. F., 8. MR. MELVILLE

11. Introductory Course. Elements of plane analytic geometry; plane trigonometry; elementary theory of equations; elements of determinants; and elements of differential and integral calculus. "Unified" course.

Open to freshmen.

Three hours, through the year. M. W. F., 9. MR. WILLIAMS

101. Calculus and Analytic Geometry. A continuation of course 10.

Three hours, through the year. Tu. Th. S., 8. MR. MELVILLE

12. Calculus and Analytic Geometry. Differential and integral calculus and Analytic Geometry, a continuation of course 11.

Three hours, through the year. M. W. F., 11. MR. MELVILLE

13. Calculus and Analytic Geometry, Plane Curves and Three Dimensions. A continuation of course 12 with applications to solutions of problems. Open to those who have completed course 101 with high ranks.

Three hours, through the year. Tu. Th. S., 9. MR. WILLIAMS

[**14. Differential Equations.**

Three hours, through the year. MR. WILLIAMS]

15. Vector Analysis, and Various Topics.

Three hours, through the year. MR. WILLIAMS

19b. Astronomy. Chiefly descriptive, the object being to make students acquainted with the main features of the heavens, celestial phenomena and laws governing them, and the most important theories that have been devised to explain them. Alternates with course 110.

Open to freshmen.

Three hours, second semester. Hours to be arranged. MR. WILLIAMS

[**110a. Elementary Surveying.** Fundamental principles; field work with transit, level, sextant, compass, and chain; map making and map reading. Alternates with course 19.

Open to freshmen who have had trigonometry.

Three hours, first semester. MR. WILLIAMS]

113. Mathematical Statistics. Text in 1932–33, Forsyth, *Mathematical Analysis of Statistics* (John Wiley and Co.).

Three hours, through the year. M. W. F., 9. MR. MELVILLE

DEPARTMENT OF PHYSICS

Professor Goddard, Associate Professor Roope

The aim of the undergraduate work of this department is to give to students a knowledge of the principles which are at the basis of modern applications of science to human affairs. It is deemed equally desirable to impart a knowledge of the methods and results of modern physics which are influencing so profoundly our fundamental concepts and without which no one may hope to be considered liberally educated. The department aims also to fit students with professional preparations for chemistry, meteorology and allied sciences, medicine, engineering and science teaching, as well as for professional or graduate work in physics.

For students majoring in physics, the following sequence of courses is recommended:

		Prerequisites	
Course	Year	Physics	Mathematics
11	First	None	None
14	Second	11	None
15	Second	11	12
13	Third	11	11
22 or 23	Third	11	12
23 or 22	Fourth	11	12
28	Fourth	11	12

GRADUATE WORK

The department is prepared to accept candidates for the degrees of Doctor of Philosophy and of Master of Arts. Emphasis is placed not only upon mathematical physics but also upon the completion of an original research problem for which work the laboratories and library provide unusual facilities.

Graduate students in physics whose minor is in mathematics may arrange for courses with the Department of Mathematics, or a special course in applied mathematics may be taken under the Department of Physics, based, for the degree of Master of Arts, on Mellor's *Higher Mathematics for Students of Chemistry and Physics*.

COURSES IN PHYSICS

1. Primarily for Undergraduates

11. General Physics. During the first semester, the work covers mechanics and heat, and during the second semester, electricity and magnetism, wave motion, sound, and light. The textbook is Duff's *General*

Physics. Mathematics 10 or 11 is advised, but not required. Indivisible course.

Open to freshmen.

Three hours, through the year. M. W. F., 10; W. or Th. 2.
MR. GODDARD

[13. **History of Physics.** A conference course on the history of the various branches of Physics. This course is not accepted as part of a *major* or a *minor*. Prerequisite, Physics 11.

Three hours, through the year. MR. GODDARD]

14. **Mechanical and Electrical Measurements.** During the first semester this course consists of electrical measurements with advanced problems in optics. In the second semester the course consists of laboratory exercises in dynamics, followed by advanced problems in heat.

Three hours, through the year. Tu. W. F., 2. MR. ROOPE

15a. Optics. Geometrical and physical optics including work in practical photography. The textbook is Houstoun, *A Treatise on Light*. Prerequisite, Physics 11.

Three hours, first semester. M. W. F., 9. MR. ROOPE

15b. Thermodynamics. This course includes a study of the thermal properties of the solid, liquid, and gaseous states, the laws of thermodynamics, and the theory of heat engines. Prerequisite, Physics 11.

Three hours, second semester. M. W. F., 9. MR. ROOPE

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

[22. **Theoretical Mechanics.** This course is a systematic presentation of theory together with the solution of problems. The textbook is Crew and Smith, *Mechanics for Students of Physics and Engineering*. Mathematics 101 or 12 must be taken before or with this course.

Three hours, through the year. M. W. F., 8. MR. GODDARD]

23. **Theory of Electricity and Magnetism.** This course treats the general principles of dynamo and motor design, high-frequency phenomena and the electron theory of matter. The prerequisites are Physics 11 and Mathematics 10 or 11; Mathematics 101 or 12 must be taken before or with this course. A knowledge of differential equations is desirable. The textbook is starling's *Electricity and Magnetism*.

Three hours, through the year. MR. GODDARD

[27. **Preliminary Mathematical Physics.** This course involves reading on specially assigned topics. The object is to provide a comprehensive background for advanced work in physics. Open to undergraduate majors in physics of high standing.

Three hours, through the year. MR. ROOPE]

28a. Laboratory Methods. A course in the methods of preparing and presenting the results of experiments and the preparation by each student of a report on at least one assigned topic that involves reference tables and literature. Prerequisite, Physics 11.
Three hours, first semester. M. W. F., 10. MR. ROOPE

3. PRIMARILY FOR GRADUATE STUDENTS

34. Advanced Mechanics. This course includes vector analysis, the equations of Lagrange and Hamilton, the methods of Hamilton and Jacoby, and Newtonian and logarithmic potential functions together with a discussion of applications to various branches of physics.
Three hours, through the year. Tu. Th. S., 10. MR. GODDARD

35. Advanced Electricity and Magnetism. The theory of electricity and magnetism is treated from the classical and the modern viewpoints.
Three hours, through the year. Tu. Th. S., 11. MR. ROOPE

36. The Partial Differential Equations of Mathematical Physics. Included in this course are vector analysis, the methods of Cauchy and Fourier, developments in series, the methods of Green and Riemann-Volterra, normal functions, and integral equations.
Two hours, through the year. MR. GODDARD

37. Research Work in Physics. Research work on an original problem in physics. Required of candidates for the master's degree.
MR. GODDARD

311. Methods of Mathematical Physics.
Three hours, through the year. M., 2–5. MR. GODDARD

312. Theory of Elasticity and Dynamics of Fluids.
Three hours, through the year. Tu., 2–5. MR. GODDARD

313. X-Rays.
Three hours, through the year. Th., 9–12. MR. ROOPE

314. Tensor Calculus with Applications in Physics.
Three hours, through the year. S., 9–12. MR. ROOPE

315. Research Work in Physics. Research work on an original problem in physics. Required of candidates for the degree of Doctor of Philosophy. MR. GODDARD

316. Seminar and Research Conference. A seminar on modern theories of physics, together with conferences on current literature and on the researches in progress.
Once a week, through the year. W., 4–6.
THE STAFF OF THE DEPARTMENT

DEPARTMENT OF PSYCHOLOGY*

PROFESSOR MURCHISON, PROFESSOR HUNTER, ASSOCIATE PROFESSOR JONES AND ASSISTANT PROFESSOR GRAHAM. *Also* PROFESSOR HOAGLAND *of the Department of Biology.*

LABORATORY FACILITIES

The psychological laboratories occupy thirty-two rooms on the third floor of the main building of the University. These laboratories were established by G. Stanley Hall immediately after the founding of Clark University, and constituted the first adequately appointed psychological laboratories in America. These laboratories, under the direction of Edmund C. Sanford and John W. Baird, increased rapidly in size and in research possibilities. The collection is rich in historical apparatus, an example being the vernier chronoscope which was invented and developed here by Edmund C. Sanford. The laboratories have an annual appropriation sufficient to provide for the purchase and manufacture of any apparatus that may be required for general and special investigations. Four dark-rooms, with special apparatus and facilities for research in the neural correlates of vision, have recently been added. The animal laboratory has recently been enlarged and better equipped.

GRADUATE WORK

NOTE: *Beginning with September, 1931, the organization involves a relationship between the Department of Biology and the Department of Psychology whereby students in either department may be credited with certain advanced courses and research in the other. Candidates for the degree of Doctor of Philosophy in psychology will be required to minor in general physiology, and in order to do this will be required to have, or to obtain, the necessary elementary knowledge of biology, chemistry, mathematics, and physics.*

Admission. Admission to graduate work in psychology, as in the case of other departments, is subject to the approval of the Graduate Board. However, the Graduate Board does not admit without the approval of the department. Admission is open to those individuals who have been graduated from accredited institutions, and whose academic record gives promise of the successful conduct of graduate work. Admission is not open to those who have never had training in elementary psychology. In addition to elementary psychology, adequate training for graduate work includes general courses in biology, physics, chemistry, mathematics, French, and German. Students who have not had such courses will be required to take them after entering Clark.

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*The Department of Education and School Hygiene was merged with the Department of Psychology at the beginning of the year 1926–27.

Courses. Students who come with the ideal preparation for beginning graduate work, i.e., with adequate training in elementary experimental psychology supplemented with general training in biology, physics, chemistry, mathematics, French and German, may expect to devote nearly all of their time during the first year to advanced course-work. Such students will need to devote about half of their time to course-work during their second year, and may expect to devote full time to research after the second year. Students not ideally prepared will be incapable of following such a schedule.

The Master's Degree. The general University requirements for the master's degree are explained elsewhere in the catalogue. The department will supplement these requirements in individual cases where it seems wise to do so. Students hoping to become candidates for the master's degree, such degree to be conferred at some definite future time, should discuss the matter without delay.

The Doctor's Degree. Only superior graduate students are encouraged to become candidates for the doctor's degree. Not only is such a candidate required to obtain exact information concerning all the significant psychological methods of research, but he is also required to demonstrate actual ability to use one or more of these methods in original research on important problems. The thesis problem should be agreed upon before the end of the second year of residence, and should be the chief occupation of the student during the final year in residence.

Theses. In addition to the general university requirements concerning the preparation and delivery of theses, the department has a supplementary requirement of an additional copy of each thesis, as well as a suitable photograph of the author, to remain on file in the department.

COURSES IN PSYCHOLOGY

1. PRIMARILY FOR UNDERGRADUATES

11a. General Elementary Psychology. An introductory course in elementary psychology and prerequisite for all other courses in the department.

Three hours, first semester. Tu. Th. S., 11. MR. GRAHAM

12b. Experimental Psychology. Students will be made familiar, by use, with the apparatus used in psychological investigations. Admission by consent of instructor.
Three hours, second semester. Tu. Th., 2. MR. GRAHAM

14a (Education 14a). Educational Psychology. A study of psychology as it bears upon the problems of education.
Three hours, first semester. W. Th. F., 12. MR. JONES

15b (Education 15b). Individual Differences and Exceptional Children. The course will include a study of the bright, the dull, the psycho-neurotic, and delinquent child.
Three hours, second semester. W. Th. F., 12. MR. JONES

16a (Education 16a). Principles of Education. A survey of the aims, responsibilities, and general methods in education.
Three hours, first semester. (To be offered in the second semester after 1932–33.) MR. JONES

17b (Education 17b). Philosophical and Historical Foundations of Modern Education. A study of the rise and philosophical bases of modern educational policies and practices.
Three hours, second semester. Offered in 1932–33, and thereafter in alternate years in the first semester. W., 2–4; Th., 2–3. MR. JONES

[**19a (Education 19a). Psychology of Character.** A survey and critical evaluation of the experimental evidence in the field and its application to education for character and citizenship. This course will require practice teaching in the form of oral reports from all undergraduate students. (Graduate students may be excused from this requirement, registering for a two-hour course and attending only the two hour meeting on Saturdays.)
Three hours, first semester. To be offered in 1933–34 and in alternate years. Th., 11; S., 11–12:45. MR. JONES]

18b. Fields of Psychology. An introduction to the different fields of psychology. Opened to a limited number of students who have completed Psychology 11a.
Three hours, second semester. MR. GRAHAM AND ASSISTANTS

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

202. Sense Organ Functions. The functions of the various sense departments: vision, audition, smell, taste, pressure, pain, temperature, and kinesthesis.
Two hours, through the year. Tu. Th., 9.
To be offered in alternate years. MR. GRAHAM

[**203. Reflex Activity.** Spinal, postural, and conditioned reflexes as components of behavior; the rôle of autonomic activity in conduct; emotional responses.
Two hours, through the year. To be offered in 1933–34 and in alternate years. Tu. Th., 9. MR. GRAHAM]

Biology 200. General Physiology. (For description, see announcement of Department of Biology.)

Biology 205. Seminar in Experimental Biology. (For description, see announcement of Department of Biology.)

206. Animal Behavior. A study of the topics of instinct, habit formation, sensory processes, and the higher adaptive forms of behavior.
Two hours, through the year. Tu. Th., 10. MR. HUNTER

207a. The Learning Process. A critical and experimental study of the chief problems of learning and memory.
Three hours, first semester. M. W. F., 10. MR. HUNTER

3. PRIMARILY FOR GRADUATE STUDENTS

[**301b. Seminar in the Principles of Psychology.** A comparative study of systems of psychology with particular reference to structuralism, functionalism, and behaviorism.
Two hours, second semester. M., 10. MR. HUNTER]

304. Departmental Seminar. Devoted to the study of selected topics in current psychological literature. Required annually of all students *majoring* in psychology for advanced degrees.
Through the year. W., 4. THE STAFF OF THE DEPARTMENT

305. Research. Intended primarily for graduate students engaged in research for the doctor's degree. THE STAFF OF THE DEPARTMENT

Biology 306. Mechanisms of Reaction. (For description, see announcement of Department of Biology.)

310. Child Behavior. This course will consist of a critical examination of the literature bearing on the experimental investigation of child behavior.
Two hours, through the year. Th., 4. MR. MURCHISON

311. Social Psychology. A systematic survey of social behavior ranging from the group behavior of microscopic organisms to the complex phenomena of human culture groups.
Two hours, through the year. Th., 4. MR. MURCHISON

313a (Education 313a). Advanced Educational Psychology: Group Methods of Experimentation. The purpose of the course will be primarily to give practice in the most valuable statistical methods for psychological experimentation.

Two hours, first semester. Tu., 4:20; F., 2. Mr. Jones

314b (Education 314b). Advanced Educational Psychology: Tests and Measurements. A systematic and critical survey of psychological tests. Both theoretical and applied aspects of testing will receive consideration.

Two hours, second semester. Tu., 4:20; F., 2. Mr. Jones

315. Quantitative Interpretation of Experimental Data. General principles used in quantitative treatment of psychological and physiological data. The problem of verification of hypothesis by quantitative methods.

Two hours, through the year. To be offered in alternate years. F., 4. Mr. Graham

DEPARTMENT OF ROMANCE LANGUAGES

Professor Churchman, Assistant Professor Dougherty

See the statement of the general requirement in foreign language, for all candidates for the A.B. degree in the announcement of the Undergraduate Division.

The French courses are planned with the following ends in view: French 11 and 12 are the basic language courses. To the student who has completed 12, courses 13 and 14 offer an option between a continuance of general language work and a course limited to translation and literature; both may be taken. Those who wish to continue the study of literature after taking 14, will take course 114, followed by the courses in which the literature is studied intensively. Those interested primarily in the study of the language will take 13 and then 17, the latter being especially valuable for prospective teachers of French, for whom course 101a, The Teaching of Modern Languages, may also be of interest.

COURSES IN FRENCH

1. Primarily for Undergraduates

11. For Beginners. Emphasis on reading ability. Incidental aural, oral, and written work. Indivisible course.

Open to freshmen.

Three hours, through the year. M. W. F., 10.

To be offered in alternate years. Mr. Churchman

12. Intermediate. Extensive reading, exercises in composition and pronunciation. Prerequisites, French 11 or two years of high school French. Indivisible course.

Open to freshmen.

Three hours, through the year. Tu. Th. S., 8. MR. DOUGHERTY

NOTE: *Courses 13 and 14 are of equal difficulty. Either may be taken upon the satisfactory completion of French 12 or three years of high school French.*

13. Advanced. Intensive drill in composition and pronunciation exclusively. An introduction to phonetics.

Open to freshmen.

Three hours, through the year. Tu. Th. S., 9. MR. DOUGHERTY

14. Readings in French Literature. Ten masterpieces of representative authors are studied in detail.

Open to freshmen.

Three hours, through the year. Tu. Th. S., 12. MR. DOUGHERTY

114. General View of French Literature. A unified and fairly complete account of French literature from the beginning to the present time. Prerequisite, course 14.

Three hours, through the year. Tu. Th. S., 10. MR. CHURCHMAN

NOTE: *The courses in literature listed below are offered each year to qualified students as private conference courses, devoted to wide reading by the student along lines suggested by his own preferences but under guidance by the instructor in weekly conferences. A short thesis is required in each semester. Before undertaking any of these courses it is ordinarily assumed that the student will have successfully completed French 114 and will have given evidence of ability to do advanced work by himself.*

15. Literature of the Seventeenth century. MR. DOUGHERTY

115. Literature of the Middle Ages. MR. DOUGHERTY

16. Literature of the Nineteenth Century. MR. CHURCHMAN

116. Literature of the Sixteenth Century. MR. CHURCHMAN

19. Literature of the Eighteenth Century. MR. DOUGHERTY

119. Contemporary French Literature. MR. CHURCHMAN

[**17. Phonetics, Advanced Composition and Oral Work.** Intensive linguistic work for intending teachers and other advanced students. Prerequisite, course 13.

Three hours, through the year. To be offered in alternate years. M. W. F., 10. MR. CHURCHMAN]

[101a (Education 101a). The Teaching of Modern Languages. A study of the major problems in the teaching of French. Incidental references will be made to German and Spanish. Prerequisite, third year college French or German course, taken previously or at the same time.

Three hours, first semester. To be offered in 1933–34 and in alternate years. Tu. Th. S., 11. MR. CHURCHMAN]

COURSES IN SPANISH

1. PRIMARILY FOR UNDERGRADUATES

11. Elementary. Carefully graded reading; exercises in grammar and pronunciation. Attention is paid to the artistic and cultural achievements of Spain. Indivisible course.

Open to freshmen.

Three hours, through the year. M. W. F., 10. MR. DOUGHERTY

12. Intermediate. Combination of readings from Spanish literature with more advanced study of the language, oral and written. Prerequisite, course 11 or two years of high school Spanish.

Open to freshmen.

Three hours, through the year. Tu. Th. S., ~~10.~~ 11.

To be offered in alternate years. MR. CHURCHMAN

DEGREES CONFERRED

In the Calendar Year 1932

BACHELOR OF ARTS

John Vincent Ablondi
Kenneth Arthur Battersby
Solomon Belkin
Louis Berkovich
Archie Henry Biron
Thomas McMaster Carleton
Sarkis Melkon Donabedian
Charles Rice Gadaire
Howard William Galvin
Irving Arthur Gardner
Max Gissen
Royal Henry Gladding
Bernard Israel Goldberg
Richard Chalmers Hair
Ernest Monroe Harwood, Jr.
Arthur Raymond Higginbottom
Axel Verner Holmgren
(With High Honor)
Arthur Randall Knox, Jr.
Morton Glenn Leach
Edward William MacDowall, Jr.
Chester Winfield Malmstead
Anthony Paul Meleski
John William Metcalf, Jr.
Arthur Michaels
John Joseph Moran
Francis Farrington Northup
Edward John O'Toole
George Augustine O'Toole
James Arthur Phair
Charles Marc Pomerat
Leon Rosoff
Walter Clifford Ross, Jr.
Wilho Mathias Salminen
Joseph Michael Shea
Francis Joseph Singleton
Abraham Slopak
(With Honor)
Robert Adams Spence
Earle Alexander Tompkins
(With Honor)
Vincent Martin Walsh
Karl Chism Whitehouse
(With Honor)
Irving Wilner

BACHELOR OF EDUCATION

Grace Lillian Bowen
Ellen Genevieve Callahan
Winifred Clare Callahan
Mae Helen Clifford
May Elizabeth Cole
Anna Brigit Collins
Frances Elizabeth Craffey
Grace Lidwin Diggins
Helen Bernard Diggins
Rita Clothilde Estabrook
Mary Catherine Healy
Helen Louise King
Mary Veronica Lynch
Margaret Nora McCarthy
Mary Cecelia McDonnell
Bernice Katherine McGuire
Abbie Catherine Ostrom
Elizabeth Agnes Savage
Ruth Virtine Sowden
Harry Leslie Toomey
Carol Terpening Walker
Hilda Grace Wallace

MASTER OF ARTS

Michael John Ambrose
Wilfred Rutman Arick
Armand Joseph Brissette, Jr.
Myrtle Cash
Phil Edwards Church
Marshall Gorham Clark
Antonio Julio Colorado
John Tougas Croteau
John Arthur Dearth
John Ernest Edwards
Ada Sophie Glickman
Guy Scott Herrick
Charles Edwin Houston
Walter Leonard Johnson
Celia Collins Kingman
Philip Alfred Klinglof
Martin Krutzky
Minnie Ethel Lemaire
Jesse MacKenzie MacKnight
George Robert Means
Claude Cassell Neet
George Etzel Pearcy
Meta Henrietta Pils
Eva Anna Poulin
Dorothy Elizabeth Richard
Stephen Thomas Riley
Mary Catherine Roberts
Anna Elizabeth Scharf
Pearl Seckler
Louis Edward Shapiro
Milton Samuel Sheftel
Elmer Lincoln Swett
Harold Davis Weymouth
Idele Louise Wilson

DOCTOR OF PHILOSOPHY

Esther Sanfreida Anderson
Clarence Virginius Hudgins
Gerald Meringer Kendall
Oreen Morris Ruedi

SUMMARY

Bachelor of Arts	41	Master of Arts	34
Bachelor of Education	22	Doctor of Philosophy	4

REGISTER

Names of students are grouped in three lists, I, those who registered in either semester of 1932–33, II, those who attended the 1932 Summer School and III, extension students.

Explanation: S—scholar; F—fellow; HF—honorary fellow; numerals 33, 34, 35, and 36 are used to classify undergraduates; g—students formally admitted to the graduate division; s—special students; B—biology; Ch—chemistry; Ec—Economics and sociology; En—English; G—geography; Gl—geology; H—history and international relations; Ph—physics; Ps—psychology.

State omitted—Massachusetts; town omitted—Worcester; street names refer to streets unless otherwise indicated.

This list includes the names of all who have matriculated and registered. An asterisk (*) indicates that the student has withdrawn from the University prior to February 1, 1933.

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Abbott, Carroll Marden	H g		36 Rollinson Rd.
Abodeely, Robert Assad	36		71 Suffolk
Adams, Dorothy	H S	Springfield, O.	12 Shirley
Adams, Lambi Nicholas	33		105 Millbury
Adams, Willard Granville	36	Holden	
Allan, Walter Scott	35		214 Dewey
Allen, Agnes Morgan	G S	Normal, Ill.	898 Main
Anish, Alfred William	34		7 Moen
Argoff, Arthur	36		25 Providence
Aronovitz, Edward	33		6 Woodbine
Arsenault, Philip Elwin	35		3 Wachusett
Back, Arthur William	33		55 Downing
Backstrom, Arthur Richard	34	Auburn	
*Bagdasarian, Raffy Der	35		48 Forbes
Baldwin, Joseph Vincent	36	N. Wilbraham, Mass.	Estabrook Hall
Barkhouse, Arthur Julius	34	Brookline	14 Oberlin
Bassinov, Saul	34	Mattapan	
Baxter, Frederic Gregory	Ec s		44 Sagamore Rd.
Beeber, Raymond Alton	35		14 Dover
Beigelman, Herman	33	Roxbury	6 Woodbine
Beitel, Robert J. J.	Ps g	Catasauqua, Pa.	14 Oberlin
Bell, Paul Robert	35	Keene, N. H.	Estabrook Hall
Bennett, Alfred Wardle	33	Auburn	
Benson, Gordon Luman	33	West Brookfield	
Berengarten, Sidney	H S	Brooklyn, N. Y.	766 Main
Berg, Carl Gustaf	36		843 Millbury
Bergin, Frances Mary	H s		5 Quincy
Berkovich, Louis	B S	Dorchester	12 Grand
Berman, Warren William	34	Haverhill	
Berthiaume, Gerard Mandeville	35	Spencer	
*Bettencourt, Robert Anthony	36	Westford	
Bibeau, Delphis, Jr.	36		303 Cambridge
Bingham, Thomas Francis	35	Nashua, N. H.	Estabrook Hall
Bishop, Harold Mason	34	Shrewsbury	
Bither, Wallace Frank	33	Sandwich	20 Gates
Blaney, Cyril Chandler	36	Westford	Estabrook Hall
*Bliven, David Percival	34		31 Tallawanda Drive
Blomfield, Carl J.	G g	Detroit, Mich.	
Bolduc, Robert Aime	36		7 Chrome
Bortz, Nelson Markley	Ec F	Collegeville, Pa.	16 Loudon
Botts, Adelbert Kenneth	G F	Minneapolis, Minn.	17 Freeland
Brearley, Robert Gifford	H g		3 Dewar Drive
Brierly, William Biggar	34	Millbury	
Brissette, Armand Joseph, Jr.	Ec F		34 Piedmont
Brooker, Maurice	35	Boston	980 Main
Brosnihan, Andrew Joseph	36		127 Puritan Ave.
Brown, Earle, Jr.	35		77 Elm
Brown, Robert Heath	Ps S	Ames, Iowa	Estabrook Hall
Bullock, Arnold James	36	Farnumsville	
Bullock, Francis Dewey	s		70 Cedar
Burnham, Robert Henry	36	Ayer	
Burwick, Maurice Julius	35	Fitchburg	
Butler, Philip Edward	34		21 Preston
Cardinal, Raymond Francis	33		60 May
Carls, John Norman	G S	Virginia, Ill.	12 Grand
Carpenter, Philip Lattimore	35	New London, Conn.	49 Florence
Carpenter, Thomas Patten	34	New London, Conn.	49 Florence
Carroll, Arthur Wheeler	34	Barre	Estabrook Hall
Casale, Daniel Joseph	33		74 Fox
Casper, Barry	Ps F	Seattle, Wash.	1 May

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Castaldi, Basilio	36	Boylston	
Chaffee, John Bernard	H s	Oxford	
Chapin, Milan Adelbert	Ch S	Bethel, Me.	166 Woodland
Cheka, Joseph Sandor	33	Darien, Conn.	16 Shirley
Chervinsky, Abraham Bernard	Ch s		10 Judson Rd.
Christenson, Arthur Alfred	36	Boylston	
Church, Phil Edwards	G F	Berwyn, Ill.	
Clark, Burton Everett	35	Sutton	
Clark, Frederick Southgate	34	Pittsburgh, Pa.	35 Maywood
Clark, Hugh Daniel	34	Pawling, N. Y.	Estabrook Hall
Clarke, Margaret Barbara	Ec g		4 Dean
Cohen, Fannie Bette	H S		23 Mendon
Cohn, Charles Baer	35	Allston	Estabrook Hall
Colbert, Maurice James	33	Mechanicville, N. Y.	4 Cristy
Collins, Edward Richard	34		34 Shirley
Collins, Gertrude R.	H g	Toledo, O.	5 King
Conant, Alvah James	34		30 Hartshorn Ave.
Crane, Lloyd Eager	34		1 Shirley Ter.
Crosby, George Howard	35		15 Vassar
Croteau, John Tougas	Ec F		5 Freeland Ter.
Cutler, Norman Giles	35	West Brookfield	
Dahl, Randle Edwin	Ec S	Brooklyn, N. Y.	166 Woodland
Darkenwald, Gordon Gerald	G F	Wimbledon, N. D.	6 Hancock
Demeter, Peter Leo	35	No. Grosvenordale, Conn.	Estabrook Hall
de Montpellier, Girard	Ps HF	Denie, Belgium	166 Woodland
DeVries, Harold Carlyle	34	Aurelia, Iowa	767 Main
Dobie, Richard J.	En s		25 Frothingham Rd.
Domblatt, Herman William	36		37 Tirrell
Dombrosk, Harry Frederick	35		139 Austin
Donabedian, Sarkis Melkon	Ch S	Medford	20 Gates
*Donovan, John Francis	36	Wallingford, Vt.	
Downey, Joseph Daniel	34		238 Webster
Durham, Walter Albert, Jr.	Ec S	Portland, Ore.	908 Main
Dworkin, Myer Arthur	33		23 Fairbanks
Eames, Robert Porter	36	Wallingford, Conn.	Estabrook Hall
Edman, Victor Raymond	H F		27 Wyola Drive
*Edstrom, Carl George	36		934 Main
Ekblaw, Sidney Everette	G F	Leicester	
Elias, Stephen	36		98 Austin
Ellis, Ralph Fletcher	34	Houlton, Me.	80 Florence
Erickson, Albert Clarence	Ph F		479 Park Ave.
Erickson, Roland Axel	35		479 Park Ave.
Estabrook, Allen Laidlaw	33		7 Cedar
Fairchild, Johnson Eddy	34	Glen Ridge, N. J.	189 Beacon
Fairman, Alonzo Bruce	35	Springfield	Estabrook Hall
Falk, Abraham	33	Newark, N. J.	44 Maywood
Ferguson, Otis Cowan	33		14 Catalpa
Ferguson, Stanley Bell	36		14 Catalpa
Fine, Robert	33		29 Bridgeport
Finer, Harold Mitchell	36	Dorchester	Estabrook Hall
Fishman, Edith Eunice	B F	Hartford, Conn.	908 Main
Fitzpatrick, Robert Joseph	33		11 Healy Rd.
Fletcher, William Glover	36	Brookfield	
Flynn, Edwards William	36		126 Woodland
Foraker, Elaine Kathryn	Ps S	Pittsburgh, Pa.	166 Woodland
Forrest, Edward Lester	34	Stockbridge	20 Gates
Fox, Louvane Alfred	33	Waterbury, Conn.	4 Norwood
Frankel, Edward	35		39 Providence
Franklin, Gladys	H S	New York City	898 Main
French, George Malcolm, Jr.	33	Stockbridge	Estabrook Hall
French, Wellington Armstrong	34	Stockbridge	Estabrook Hall
Fuller, Robert Lyman	36		574 Pleasant
Gallagher, Cleon Wallace	35	Uxbridge	
Galvin, Howard William	H s		146 Lincoln
Gibson, Joshua Sullivan	G F	Bowling Green, Ky.	892 Main
Gifford, Roger Gaillard	36	Rutherford, N. J.	Estabrook Hall
Gilbertson, Albion Norman	36	No. Grafton	
Glaude, Paul Marcel	35	Biddeford, Me.	23 Bellevue
Goldenberg, Alfred	35		94 Cutler
Good, Gordon R.	G s	West Upton	
Gould, David Marshal	35		59 Vale
Goulding, John Paul	35	Leicester	
Graham, Arthur Robert	35		14 Lewis
Graham, Boynton	34	Haverill	35 Maywood
Grant, Robert Donald	36	Paxton	
Grimmer, Herman Joseph, Jr.	33	New Glasgow, N. S.	71 Jaques Ave.
Grodberg, David Abraham	36		142 Elm
Grodberg, Emil Hirsch	Ec s		142 Elm
Dorn, Frank	36		53 Coral
Fountain, Laurence F	GF	2nd sem. only	

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Grout, Milton Lory	35		83 Olean
Gruzdzis, Vincent Paul	34		39 Canton
Hagemann, Hans Heinrich	36	Irvington, N. J.	Estabrook Hall
Hall, Charlotte Elaine	Ps g	Little Falls, Minn.	Worcester State Hosp.
Hall, Oliver Richard	35		12 Hanson Ave.
Hall, Perry Blackmer	33	Dudley	35 Maywood
Hansen, Robert Eugene	36		76 Fairhaven Rd.
Hargrove, Harold Gordon	36		37 Hudson
Harrison, James	33	Brighton	21 Maywood
Haworth, Lawrence Alanson	36	Dalton	Estabrook Hall
Healy, Lawrence Patrick	36		100 Fairmont Ave.
Heath, Herschel	H F	Wichita, Kans.	10 Englewood Ave.
Hemenway, Everett Merritt	34		18 Fairbanks
Herrick, Guy Scott	Ch F	Lewiston, Me.	166 Woodland
Hickman, Roy T.	G g	Laings, Ohio	Estabrook Hall
Higginbottom, Russell William	33	Millbury	
Higginson, William John	G S	Hartford, Conn.	Estabrook Hall
Hillhouse, Douglas Paton	34	West Haven, Conn.	6 Wayne
Hines, A. Gertrude	Ec s		1002 Main
Hirtle, John Richard	35	Brookfield	
Hoar, Walter Ahaesy	35		24 Maywood
Hodge, Walter Henricks	34		21 Suburban Rd.
Hodgkins, Alfred Sawyer	36		6 Silver
Holdcamper, Forrest Robert	H F	Sparks, Nev.	70 Downing
Holmgren, Axel Verner	Ch S		34 Ames
Holter, Richard Norman	34		23 Brighton Rd.
Horne, Glendon Cloyes	36	Shrewsbury	
Horovitz, Edward Harry	33	Roxbury	6 Woodbine
Howarth, George Everett	33		26 Arthur
Hulbert, Kenneth Lee	36	Westboro	
Hurlburt, Harry Waite	36		45 Dover
Ishii, Ryoichi	Ec F	Tokyo, Japan	
Ivazian, Aghasi Ivan	36		228 Highland
Jaffe, Sydney	33	Dorchester	980 Main
Jewett, Gleason Wiley	36	Gardner	Estabrook Hall
Johanson, Yngve Walter	33	Oakdale	35 Maywood
Johnson, Austin Simon	36	S. Manchester, Conn.	Estabrook Hall
Johnson, Charles Francis	34		58 Olga Ave.
Johnson, Wendell John	34		5 Winchester Ave.
Kabaker, Charles Bernard	33		45 Granite
Kaneb, Kenneth Abraham	34		602 Grafton
Karaku, Louis Theodore	33		24 Bancroft
Karn, Harry Wendell	Ps F	Pittsburgh, Pa.	14 Kingsbury
Kavanaugh, John Joseph	Ch s		132 June
Kayer, Donald Allen	34		54 Dover
Keeler, Marston W.	s	Whitinsville	
Keith, John Robert	36	Warren	
Kemp, Edward Harris	Ps F		6 Hancock
Kennedy, Kathleen Mary	G g		3 Channing Way
Kennan, Dana Willard	36		157 Highland
Kimball, Roland Charles	36	Westboro	
*King, Willis Lorenzo	H s		16 Freeland
*Kirby, William Thomas	35	Dalton	1003 Main
*Kneeland, Austin Bernard, 3rd	35		23 Hollis
Kneller, George Frederick	H g		30 Franconia
Klinglof, Philip Alfred	Ch F		201 Lincoln
Korpi, Urho	33		18 Catherine
Krzinowek, Alfred Joseph	36	Rutland	6 Jacques Ave.
Kuratt, Wallace Hamilton	G S		772 Main
Kushner, Joseph Martin	35	New London, Conn.	980 Main
Laakso, Toivo Matthews	33	Gardner	4 Cristy
Ladd, Lawrence Firmin, Jr.	36		22 Chamberlain Pkwy.
Laine, Oiva	36		42 Vilander
Lalos, Arthur Henry	36		7 Gold
Larson, Evert John	B S	West Haven, Conn.	Estabrook Hall
Laskoff, Leo Lawrence	36		42 Morningside Rd.
Lauf, Paul A.	33		219 Park Ave.
*Lavallee, Raymond Bernard	36		20 Clement
Lavine, Hymen	36	Boylston	25 Marjorie
Lax, Martin	36	Dorchester	Estabrook Hall
Lee, Harriet Elizabeth	G g	Wellesley	
Lehtinen, Paul John	34		183 Eastern Ave.
Leighton, Herbert Towle	34	Morristown, N. J.	Estabrook Hall
Lemaire, Minnie Ethel	G S		4 Kendrick Ave.
Levine, George	34	Brooklyn, N. Y.	448 Chandler
Levine, Robert	H F	Brooklyn, N. Y.	448 Chandler
Levitsky, Hymen	Ch s		23 Colonial Rd.
*Lewis, J. Kenneth	36		43 Monadnock Rd.

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Lisk, George Francis	35	Millbury	
Lukens, Philip Woodman	33	Burlington, N. J.	35 Maywood
Macdonald, Hugh Glenn	36	Framingham	Estabrook Hall
MacKnight, Jesse MacKenzie	H F	Lakewood, N. J.	766 Main
Mahan, Arthur Raymond	36	New Britain, Conn	Estabrook Hall
Maher, John William	36		8 Hadwen Lane
Maher, William Joseph	36		8 Hadwen Lane
Malkiel, Saul	34	Mattapan	980 Main
Manoogian, Michael	36		104 Belmont
Margolis, Isaac	36		28 Mendon
Marshall, Benjamin Tinkham, Jr.	33		31 May
May, Louis Henry	36	Keene, N. H.	Estabrook Hall
McCarron, Andrew Thomas	36		66 Dover
McCauley, Byron Francis	34	Dalton	1003 Main
McLaughlin, Theodore Thomas	33		6 Ward
McPherson, George Spowart	H S	Prince Albert, Saskatchewan	Estabrook Hall
Meleski, Anthony Paul	Ec g		130 Endicott
Melville, Robert Seaman	36		16 Isabella
Menard, Roland Joseph	B s	Spencer	
Miles, Robert Albert	36		6 Hancock
Millard, Clifford Burton	36		Worcester St. Hosp.
Miller, LeRoy C.	G g	Dayton, Va.	6 Charlotte
Millman, Nathan	36	Springfield	Estabrook Hall
Mintz, Evrom	36		30 Providence
Milstead, Harley P.	G F	Upper Montclair, N. J.	24 Loudon
Montgomery, Harold H.	36	Plattsburg, N. Y.	Estabrook Hall
Moore, Norman Buck	35	Sterling	
Moran, John Joseph	H S	Clinton	
Morrison, Hugh MacKenzie	H F	Vancouver, B. C.	10 Silver
Moss, Paul Francis	34		19 Richmond Ave.
Mulvey, George	33	West Brookfield	
Murphy, John Paul	Ec g		27 Orne
Neet, Claude Cassell	Ps F	Glendora, Calif.	919 Main
Nelson, Clifford S.	Ch s	Willmar, Minn.	87 Florence
Nelson, James Stewart	34	Holden	
Nelson, Wilfred Albert	35		30 Whipple
Nevins, Helen Theresa	H s		15 Paine
Newman, Sidney Harold	Ps S	Danville, Va.	3 Maywood Pl.
Nystrom, John Warren	36		40 Eunice Ave.
Oberg, Ernest Victor	34		8 Victoria Ave.
O'Brien, James Philip	35	Framingham	
O'Connor, John Francis	34		67 Oread
O'Donnell, Eleanor Margaret	Ec g		315 Salisbury
Ohman, Howard Leonard	36		23 Sunrise Ave.
Ohrn, Roy August	34		18 Mill
Oliver, A. Russell	G F	Great Falls, Mont.	
O'Neil, Richard James	35	Garden City, L. I., N. Y.	Estabrook Hall
Opitz, Edmund Albert	36		6 Trinity Ave.
Ordway, Robert Shaw	36		1017 Main
Parker, David Jillson	33		4 Agawam
Parmelee, Richard Clark	36	Durham, Conn.	Estabrook Hall
Parson, Reuben L.	G g	Battle Lake, Minn.	12 Grand
Pearcy, George Etzel	G F	Hollywood, Calif.	6 Hancock
Pender, John James	33		2 Abington
Perkins, Frederick Thomas	36	Shrewsbury	
Perman, Maxwell Louis	35		63 Russell
Picó, Rafael	G S	Coamo, P. R.	166 Woodland
Plotkin, Abraham	36		59 Arlington
Politsch, Lloyd	33	Gloversville, N. Y.	35 Maywood
Pomeroy, Everett Graham	35	Sunderland	156 Fairhaven Rd
Porter, David Russell	35	Wellesley	1003 Main
Portman, Harry	36	Malden	Estabrook Hall
Potts, Gerald	H g	Shrewsbury	
Pratt, Robert Whiting	36		79 West
Prescott, Milton Edwin	35		110 North Parkway
Presson, Harold Weber	En s		125 Penn Ave.
Price, Galen Roger	36		56 Bowdoin
Pride, George Howard	36		22½ Orchard
Primmer, George Henry	G F	Duluth, Minn.	9 Hawthorne
Putnam, Howard Line	G F	Miami, Fla.	941 Main
Raab, Johann	H & Ec F	Teuschnitz, Germany	166 Woodland
Raffel, Gertrude	Ps S	New York City	Worcester State Hosp.
Ravitz, Louis Arnold	36		138 Elm
Reardon, Joseph	34	Quincy	1003 Main
Reed, Emerson Charles	33	Addison, Conn.	20 Gates
*Reilly, Charles Frederick	36	Brockton	11 Charlton
Reynolds, James Bernard	34		142 Wildwood Ave.
*Reynolds, Richard Joseph	Ch s		1386 Main

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Rice, John Dexter	36		8 Silver
Rice, Theodore Adams	34		8 Silver
Richmond, Mark Stanley	36	So. Hanover	Estabrook Hall
Ricker, Henry Carroll	34		36 King
Riley, James Lewis	36		38 Burncoat
Riley, Stephen Thomas	H F		194 Ingleside Ave.
Roberts, Mary Catherine	G F	Lowville, N. Y.	1 Woodbine
Rochette, Robert Phillips	36		15 Colonial Rd.
Romanoff, Bernard Leon	36		61 Houghton
Ross, Harold William	35	Spencer	
Rosvall, Toivo David	34		197 Eastern Ave.
Rothera, Ralph Edward	36		31 Caro
Roy, Raymond Serge	33	New Bedford	1003 Main
Rubin, Morton Albert	B g	Roxbury	28 Hollywood
Russell, Roger Wolcott	35		22 Holland Rd.
Russell, William Franklin	34		147 Coolidge Rd.
Salminen, Ilmari Fritiof	33	Hubbardston	
Salminen, Wilho M.	Ch S	Hubbardston	
Sandman, Jordan Philip	34		20 Berkmans
Savage, Stephen George	36		19 Aetna
Seckler, Pearl	Ps F	Brooklyn, N. Y.	Worcester State Hosp.
Seligson, Isaac	33	Arverne, L. I., N. Y	12 Grand
Serijanian, Kasper Thomas	36		43 Highland
Shachoy, Gordon Ralph	34	Allston	980 Main
Shaer, Samuel Stanley	35		401 Lovell
Shamagochian, George Karaken	36		8 Winfield
Shapiro, Herbert Martin	36	Brooklyn, N. Y.	Estabrook Hall
Shappy, Roland Francis	34	Millbury	
Sharrett, Ralph Louis	35	Bristow, Va.	Estabrook Hall
Shaw, Raymond Edward	H s	Millbury	
Shaw, William Provan	H g		32 June
Shea, Joseph Michael	H S		15 Blanche
Sienkiewicz, Michael Walter	Ec g		52 Upsala
*Silver, Benjamin	35		131 Puritan Ave.
Simpson, Robert B.	G S	Grand Forks, N. D.	Estabrook Hall
Slopak, Abraham	Ec S	Colchester, Conn.	980 Main
Slopak, Elias	34	Colchester, Conn.	980 Main
Smart, Lynwode Norton Lee	34		37 Oak Ave.
*Smith, Hampton	33	Gloucester	1003 Main
Smith, Joseph Roy	Ps S	Verona, Pa.	166 Woodland
Smith, Mary Winifred	G g		159 Cambridge
Smith, Nathan Joseph	34	Chelsea	46 Freeland
Smithline, Joseph	34	New London, Conn.	17 Crystal
Snape, William John	33	Camden, N. J.	2 Woodbine
Solomon, Abraham	36		7 So. Stowell
Somers, William H.	Ec S	Danbury, Conn.	
Spencer, Roger Burgess	35		14 Quinapoxet Lane
Stautz, Althea	G g	Lakota, N. D.	4 Hancock
Steiman, Solomon Eli	33	Brookline	980 Main
Steinert, Joseph	Ps F	Pittsburgh, Pa.	12 Grand
Steinhilber, Gustav Walter	33		46 Dorchester
Steinhilber, Otto William	35	Shrewsbury	
Stevens, James Masefield	33		59 Downing
Stewart, Kenneth Howard	36		11 Hammond
Strub, George Ramsay	33	Plainfield, N. J.	20 Gates
Sukaskas, Vitold	35		18 Hillside
Sullivan, George Paul	Ch s		13 Hancock
Sullivan, Leo Vincent	33		80 Pleasant
Sumner, Alfred Rockwell	G S	Villanova, Pa.	1004A Main
Sundberg, Oliver E. (Olavi Paivarinta)	33	Gardner	55 Downing
Sutherland, Arthur Theodore	Ec F	Reno, Nev.	166 Woodland
Sweeney, Eugene Michael	Ec g		42 Duxbury Rd.
Tacker, Herbert Ralph	36		33 Lincoln
Talbot, Russell Paul	35		72 Kenberma Rd.
Tappan, Paul W.	34	Danbury, Conn.	35 Maywood
Tashjian, Berge C.	34		1 Ashland
Tatham, George	G HF	Liverpool, Eng.	166 Woodland
Taylor, Richard Colton	34	Spencer	
Terio, Oiva Axel	36	Rutland	
Tessier, Paul Victor	36		43 Rockdale
Thomas, Albert T.	G g	Highland Park, Mich.	
Thomasian, Paul Arakel	36		8 Newport
Tillman, Jacob	36	Springfield	Estabrook Hall
Thompson, Tillie Mabel	H g	Fulton, N. Y.	898 Main
Tobey, Dorothy Cora	H s		99 Henshaw
Tosi, Ernest Anthony	33		4 Northampton
Trumbull, John Thomas	35	Chicopee Falls	4 Woodbine
Tulloch, Jane	G g	New Paltz, N. Y.	166 Woodland
Turner, Stanley Glendon	34	Chester	Estabrook Hall
Smith, Harold K.	33	Danvers	Estabrook Hall
Smith, Robert B.	Unclassified	New York City	

(Admitted 3/2/33 by special action of Pres. Atwood.)

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Van Der Voort, John Leslie	H F	Hamilton, N. Y.	16 Loudon
Vinciguerra, Edmund Albert	35	Jamaica, L. I., N. Y.	Estabrook Hall
*Voedisch, Edward	B s	Fitchburg	
Waites, Sara Frances	G S	Birmingham, Ala.	41 Beaver
Walker, Donald Albert	34		33 Montague
Walsh, Vincent Martin	Ch S		63 Stafford
Watchorn, Arthur Walter	36	Millbury	
Westerholm, Roland John	34		5 Hockanum Way
Whitehouse, Karl Chism	Ch S	Abington, Conn.	20 Gates
Whitman, Howard Glenn	34		48 Downing
Wilder, Arthur Stanley	36		3 Bernice
Wilder, Frederick Howard, Jr.	34	Waltham	18 Shepard
Williams, Arthur Robert	35	Dalton	Estabrook Hall
Williams, Robert Bruce	36	Dalton, Pa.	Estabrook Hall
Wilson, Sydney Edward	34	Hartford Conn.	
Wilson, Walter C.	Ec S	Reno, Nev.	166 Woodland
Wissenbach, Charles Fred	35	Clinton	
Wood, Walter	36	Warren	
Young, Benjamin Carl	34		55 Granite
Zarrow, Myer X.	34	Millbury	

EXTENSION STUDENTS

Second Semester, 1931–1932

Anson, Olive E.
Bacon, Ruth I.
Baldwin, Virginia H.
Beck, Mildred L.
Bowen, Grace L.
Brennan, Joseph F.
Brown, A. Jean
Brown, Henry M.
Bryant, Nellie J.
Cahill, Anna G.
Cahill, Catherine M.
Callahan, Ellen G.
Callahan, Winifred C.
Carey, Harriet M.
Carey, Helen M.
Carmody, Catherine A.
Carroll, Margaret M.
Clark, Esther M.
Coffey, Grace C.
Cole, May E.
Converse, Anne
Craffey, Frances E.
Cunningham, Helen M.
Degnan, Francis J.
Delaney, Mary F.
Diggins, Grace L.
Diggins, Helen B.
Dobbins, Alice P.
Dodge, Cora J.
Donallan, Margaret M.
Doyle, Margaret M.
Ducey, Agnes F.
Duggan, Helen G.
Early, Mary
Ephraim, Helen
Erikson, Viola B.
Estabrook, Rita C.
Feeley, Katherine R.
Feen, Helen G.
Fisher, Mary B.
Fox, Florence E.
Gardyne, Dorothy A.
Gibbs, Pearl K.
Gilgan, Mary A.
Ginn, Addie M.
Goodspeed, Madge L.
Groden, Anna R.
Groden, M. Mildred
Hagopian, Alice
Hall, Margaret E.
Hammond, Cleon C.
Hargrove, Gordon
Healey, Gertrude F.
Healy, Katherine R.
Healy, Mary C.
Higginbotham, Willie R.
Holmquist, Harold
Horne, Dorris E.
Horne, Emma M.
Illingworth, Selma K.
Kelley, Catherine F.
Kelliher, Margaret C.
Kendrick, Grace A.
Kennedy, Irene M.
Kilton, Dorothy G.
King, Helen L.
Kirby, A. Florence
Knox, Frances M.
Lantz, Virginia E.
Larkin, Alice B.
Lavin, Leonora M.
Laws, John S.
Lee, Alice J.
Leonard, A. Loretta
Loungway, Lillian A.
Lynch, Mary V.
Lyseth, Amy C.
Mahan, Kathryn E.
Marshall, Nora A.
Mathews, Georgiana P.
McAuliffe, Margaret I.
McCarthy, Margaret N.
McDonnell, Mary C.
McGuire, Bernice K.
McHugh, Catherine M.
McHugh, Hannah T.
McManus, Elizabeth S.
McNulty, Anna C.
McQuaid, Katharine L.
McQueeny, Dorothy E.
McSheehy, Elsie M.
McVay, Carolyn
Mellen, Alice M.
Meyer, Evelyn S.
Miner, Ethel M.
Molloy, Mary H.
Moran, Helen G.
Moran, Honora A.
Moran, Julia A.
Murphy, Mary F.
Nagle, Mary E.
Nelson, Florence A.
Nickerson, Evert F.
O'Brien, Mary E.
O'Connor, Deborah F.
O'Connor, Grace M.
O'Connor, Mary E.
Ohrn, I. Marie
Page, Charles W.
Power, Gertrude C.
Rollins, Ellen H.
Salmon, Anna M.
Salmon, Mary G.
Savage, Elizabeth A.
Sayle, Harriet A.
Sayle, Mary E.
Scott, Edna M.
Shea, Agnes G.
Shea, Ella G.
Shea, Joseph E.
Sinnott, Alice E.
Sugden, Lelia
Sullivan, Marie
Talbot, Geraldine C.
Walker, Ruth A.
Ward, Mary L.
Willard, Ethel L.
Wilmarth, Madelin A.
Wilson, Edith C.
Zona, Elizabeth H.

EXTENSION STUDENTS

First Semester, 1932–1933

Adams, Ellen
Bacon, Ruth I.
Brown, A. Jean
Bryant, Nellie J.
Buckley, Frances G.
Cahill, Anna G.
Cahill, Catherine M.
Callahan, Florence B.
Carey, Helen M.
Casey, Irene C.
Clark, Esther M.
Coe, Bertha G.
Coffey, Grace C.
Converse, Anne M.
Cutting, Virginia
Delaney, Mary F.
Dewing, Doris N.
Dodge, Cora J.
Donnelly, Mary T.
Duggan, Helen G.
Dunbar, Eleanor S.
Early, Mary
Ephraim, Helen
Erikson, Viola B.
Fisher, Mary B.
Feeley, Katherine R.
Foster, Madeleine
Fox, Florence E.
Foy, George A.
Garrity, Edward J.
Gilgan, Mary A.
Ginn, Addie M.
Goodspeed, Madge L.
Griffin, Mae K.
Groden, Anna R.
Groden, M. Mildred
Grossman, Freda
Harris, Bessie L.
Haviland, Christine N.
Hays, Janet C.
Healey, Gertrude F.
Higginbotham, Willie R.
Holmquist, Harold
Horne, Emma M.
Howe, Wyman Vincent
Hoyle, R. Marjory
Illingworth, Selma M.
Jetté, Loretta J.
Kennedy, Irene M.
Kent, Nellie
Kilton, Dorothy G.
Kirby, A. Florence
Larkin, Alice B.
Larson, Blenda V.
Lavelle, Mary E.
Learned, Barbara R.
Lee, Alice J.
Leonard, A. Loretta
Lewis, Lilian M.
Lombard, Grace M.
Lombard, Mildred A.
Loungway, Lillian A.
Lyseth, Amy Coburn
Mahoney, Margaret V.
Maillet, Leo O.
Manifold, Mary E.
Manning, Eileen F.
Maxwell, Lillian R.
Maynard, Florence
Maynard, Gertrude
McAuliffe, Helen L.
McCormack, Frances M. L.
McDonald, Mary I.
McDonnell, Nellie A.
McGourty, Kathleen V.
McManus, Elizabeth S.
Medin, Elin E.
Mellen, Alice M.
Miner, Ethel M.
Moran, Helen G.
Moran, Honora A.
Morrison, Agnes R.
Mower, Elsie D.
Nagle, Mary E.
Nelson, Florence A.
Newman, Sidney H.
Nilson, Olive D.
O'Brien, Mary E.
O'Connor, Deborah F.
O'Connor, Mary E.
O'Flynn, Mary G.
Ohrn, I. Marie
Plunkett, Francis T.
Power, Gertrude C.
Quigley, Helen T.
Quinn, Margaret
Rice, Rebecca
Rich, Cecil G.
Rollins, Ellen H.
Rome, Edythe S.
Rougvie, Agnes S.
Ruggles, Ella K.
Salter, Dorothy
Sayle, Harriet A.
Sayle, Mary E.
Scott, Edna M.
Scott, Madeleine
Scott, Marion L.
Shea, Agnes G.
Shea, Elizabeth M.
Shea, Joseph E.
Sherman, Eva M.
Shewbrooks, Helen M.
Somers, Catharine A.
Stone, Lillian M.
Stone, Mary E.
Stromberg, Alfhild E.
Sugden, Lelia
Sullivan, Ernestine D.
Sullivan, Marie
Sweeney, Thomas J.
Swenson, Alice M.
Talbot, Geraldine C.
Tobin, Edward F.
Toy, Charles
Walker, Ruth A.
Wallace, Clifford R.
Ward, Mary L.
Wassell, Albert W.
Watson, Ethelyn C.
White, Ruth M.
Willard, Ethel L.
Wilmarth, Madelin A.

1932 SUMMER SCHOOL

F. T. indicates participation in a field trip only.

F. T. Aldrich, Alton R., Danbury, Conn.
F. T. Allen, Dawn, Minetto, N. Y.
Anderson, Alton R., Worcester
Bagdasarian, Raffy D., Worcester
Bard, Henrietta O., Pleasantville, N. Y.
F. T. Bartlett, Naomi S., Fulton, N. Y.
F. T. Bartlett, Ruth S., Fulton, N. Y.
Bassett, Paul A., Gardner
Beishlag, George, Detroit, Mich.
Belcher, S. Elisabeth, Worcester
Belden, Mabel, Keuka Park, N. Y.
F. T. Bergen, Adriana M., Mattituck, N. Y.
Beriswill, Irene, Cleveland, O.
Bliven, David P., Worcester
Bliven, Roger, Worcester
Blomstrom, Lillian S., Worcester
Brackett, Grace W., Troy, N. Y.
Breen, Joseph M., Worcester
Brooker, Maurice S., Boston
Bryant, Alice G., Spencer
Cahill, Catherine M., Worcester
Callahan, Ellen G., Worcester
Callahan, Winifred C., Worcester
F. T. Campbell, Avis L., Georgetown, N. Y.
Cardinal, Raymond F., Worcester
Carey, Helen M., Worcester
Cash, Myrtle, Farmville, Va.
Church, Olive I., Westfield, N. J.
Churchman, Frances, Worcester
Clarke, Margaret B., Worcester
Clifford, Mae H., Gardner
F. T. Clough, Stanley
Cole, Phyllis F., Grafton
Collins, Anna B., Mt. Vernon, N. Y.
Converse, Anne, Worcester
Cottrell, Anne C., Staunton, Va.
Craffey, Frances E., Worcester
F. T. Critz, Verne, W. Monroe, N. Y.
Culver, Lora G., Shenandoah, Iowa
F. T. Cummings, Lena, Westboro
Curtis, Elinor S., Woodville
Cutting, Virginia, Worcester
Daley, Mary A., Worcester
Davis, Gladys B., Orange, N. J.
Davis, Helen E., Worcester
Davison, Flora O., Ogdensburg, N. Y.
Denny, Barbara, Worcester
Denton, J. William, Roxbury
Dietrich, Bertha, Ogdensburg, N. Y.
Difley, Alfrieda M., Worcester
Dobie, Albert J., Worcester
Doyle, Margaret M., Worcester
Dworkin, Myer A., Worcester
Eby, M. Dorothy, Trenton, N. J.
Farrell, Eunice G., Worcester
Feeley, Katherine, Worcester
Fitzpatrick, Robert J., Worcester
Ford, Catherine E., Grafton
Fox, Florence E., Worcester
Fox, Louvane A., Waterbury, Conn.
Fryer, Francis L., Worcester
Gilgan, Mary A., Worcester
Gilligan, Frances O., Worcester
Gissen, Max, Brattleboro, Vt.
F. T. Gordon, Sadie C. B., Port Chester, N. Y.
Guerin, Katherine H., Worcester
Haines, Ethel, Hunter, N. Y.
F. T. Hanlon, Nellie F., Oswego, N. Y.
Hargrove, H. Gordon, Worcester
Hayden, M. Dolores, Rosendale, N. Y.
Healey, Gertrude F., Worcester
Hedquist, Wallace E., Worcester
Heffner, Miriam V., Emaus, Pa.
Higginbottom, Arthur R., Millbury
Higginbottom, Russell W., Millbury
Higgins, Margaret, Worcester
Hillhouse, Douglas P., W. Haven, Conn.
Holmquist, Harold, Shrewsbury
Howe, George F., New Britain, Conn.
Hoyle, R. Marjory, Worcester
F. T. Huntley, Sara F., Oswego, N. Y.
Jackson, Catherine E., Port Chester, N. Y.
Johanson, Ingrid, Oakdale
Kaufman, Edith R., Worcester
Keene, Ella O., Groveton, N. H.
Kennedy, Irene M., Worcester
Kimball, Roland C., Westboro
Kirby, Florence, Worcester
Kneeland, Margaret B., Worcester
Kneeland, Marion L., Worcester
Kraemer, Irvin G. W., Clinton
Ladd, L. Firmin, Worcester
Lajoie, Antoinette, Worcester
Langley, Roger F., Barre
Lee, Alice J., Worcester
Leidy, Geneva C., New Hanover, Pa.
Lemaire, Willard, Worcester
Leonard, A. Loretta, Worcester
Lombard, Helen F., Worcester
Lombard, Mildred, Worcester
Looney, Margaret C., Worcester
Loring, Russell D., Worcester
Loungway, Lillian A., Brookfield
F. T. Luce, Edith M., Alleghaney, N. Y.
Lynch, Mary V., Worcester
Marden, Clara, Manchester Depot, Vt.
Masson, Helen B., Anacostia, D. C.
Matthews, Mary A., Worcester
McCauley, Byron F., Dalton
McCormack, Frances M. L., Worcester
McDonald, Mary I., Worcester
McDonnell, Mary C., Worcester
McGourty, Kathleen V., Worcester
McKinstry, Katherine, Southbridge
McManus, Elizabeth S., Worcester
McQuaid, Katharine L., Worcester
Meagher, John H., Jr., Worcester
Means, George R., Bloomington, Ill.
Melville, Robert S., Worcester
Merrifield, Helen E., Worcester
Miller, LeRoy C., Dayton, Va.
F. T. Monsell, A. May, Mattituck, N. Y.
Moran, Cecelia T., Leominster
F. T. Morley, Max
Moulson, Sylvia R., Ware
Moyer, Josephine, Reading, Pa.
Nagle, Mary E., Worcester
Neary, Michael T., Worcester
Nelson, Florence A., Fitchburg
Nelson, Helen M., Worcester
Nylin, C. George, Worcester
Oberg, Ernest V., Worcester
O'Connor, Deborah, Worcester
O'Connor, Noreen B., Worcester
O'Donnell, Gertrude C., Worcester
Ohman, Howard L., Worcester
Ohrn, I. Marie, Worcester
O'Neil, Richard J., Garden City, N. Y.
Payne, Arvella, Middletown, N. Y.
Peabody, Eleanor L., Troy, N. H.
Pender, John J., Worcester
Perkins, Frederick T., Shrewsbury
Perkins, Isabel R., Worcester
F. T. Phipps, M. Alice, Syracuse, N. Y.

Pils, Meta, Bloomington, Ill.
Plunkett, Francis T., Jr., Worcester
Potts, Gerald, Shrewsbury
Power, J. Ethel, New Orleans, La.
Racine, R. Joseph, Chicopee
Redman, Josephine M., Pittsburgh, Pa.
Reeves, Dorothy M., Worcester
F. T. Rhoades, Fanny F., Hannibal, N. Y.
Roberts, M. Catherine, Lowville, N. Y.
Rodman, Ethel, Cheney, Kans.
Rose, Emylee, Leominster
Rosenbaum, Bessie, Worcester
Ross, Sabra L., Penn Yan, N. Y.
Rotruck, Clarence D., Anderson, Ind.
Samson, Dorothy H., Springfield, Vt.
Sandman, Jordan P., Worcester
Savage, Elizabeth A., Worcester
Scharf, Ann, Long Beach, Calif.
Shachoy, Gordon R., Brookline
Shaw, Earl B., Monroe, Iowa
Shea, Agnes G., Worcester
Shea, Joseph E., Worcester
F. T. Shepherd, Gertrude A., Oswego, N. Y.
Simmons, Florence S., Worcester
Sloan, Emma L., Chambersburg, Pa.
Smith, Harold K., Danvers
Southworth, Hazel E., Phoenix, N. Y.
Sowden, Ruth V., Montclair, N. J.
Spence, Robert A., Worcester
Steen, Grace M., Berea, O.
Streeter, Mary A. R., Worcester
Streeter, Mrs. Willis
Talbot, Edmond D., Worcester
Talbot, Geraldine C., Worcester
Talbot, Russell P., Worcester
F. T. Tenney, Amy T., Keene, N. H.
F. T. Thompson, Ethel M., Phoenix, N. Y.
Toomey, Harry L., Worcester
Tosi, Ernest A., Worcester
F. T. Toulson, Margaret H., Albion, N. Y.
Trevett, Elsie M., Rutland, Vt.
Underhill, Mary T., Piermont, N. H.
Vail, Anna F., New Bedford
Virtue, Jessie, Meadville, Pa.
Waldron, Florence I., Rome, N. Y.
Walker, Carol T., Troy, N. Y.
Ward, Mary L., Worcester
Ware, Amy E., Salem
Warren, Marion, Grafton
Wasson, Margaret M., Ilion, N. Y.
F. T. Whalen, Anne E., Kingston, N. Y.
Whitman, Howard G., Worcester
F. T. Wing, Ruth M., Port Chester, N. Y.
Wood, Walter D., Worcester
Wynn, Marguerite, Worcester
F. T. Young, Bertha A., Hannibal, N. Y.
Zentgraf, Alice, Webster
Ziskowski, Julia, Beverly

SUMMARY 1932-33

Undergraduates		270
Freshmen	98	
Sophomores	55	
Juniors	70	
Seniors	47	
Graduate Students		95
Special Students		18
Extension Students (first semester)		134
Summer School Students (1932)		202
Total		719

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CLARK UNIVERSITY

The Forty-third Annual Commencement

JUNE 5, 1933

Order of Exercises

Processional: Marche Aux Flambeau	*Clark*
Marche Hongroise	*Berlois*
Invocation	Dr F Raymond Clee Clark 1918 Pastor of the Old Bergen Church Jersey City New Jersey
Commencement Address	John Lund Clark 1913 Superintendent of Schools Newton Massachusetts
Annual Statement of the President	
Announcements	The Prentiss Hoyt Prize for Poetry The Edmund C Sanford Scholarship
Il Bacio	*Arditi*
Conferring of Degrees	
Benediction	
Recessional	

Music by
Clark University Orchestra
David Kaplan: Director
Edward Aronovitz: Concertmaster

The audience will kindly remain
standing during the recessional

CLARK UNIVERSITY

Final Assembly of the 1933 Summer School

August 10, 8:30 p. m.

I. The Lady of the Weeping Willow Tree . . *Stuart Walker*

A Three Act Play

CAST

(In order of appearance)

Prologue, *Memory*	Mary F. Atwood
O-Sode-San, *the bitter one*	Bertha C. Hall
O-Katsu-San, *the sad one*	Margaret Sharry
Obaa-San, *the lonely one*	Margaret O. Barker
The Gaki of Kokoru, *an eater of unrest*	Lewis A. Houghton
Riki, *the poet*	Joseph Baldwin
Aoyagi, *the Lady of the Weeping Willow Tree*	Winifred O'Grady

SETTING

Act 1—Before the House of Obaa-San
Act 2—A Bamboo Glade on the Mountainside
Act 3—Before the House of Obaa-San

II. Conferring of Degrees . . . . President Atwood

Bachelor of Education

Helen Margaret Carey
Anna May Converse
Mary Ethel Cotterel
Joshua William Denton
Gertrude Frances Healey
Irene Mary Kennedy
Dorothy Gertrude Kilton*
Frances Mildred Louise McCormack
Josephine Moyer
Florence Abbie Nelson
Harriet Ashton Sayle
Mary Ellen Sayle
Mary Louise Ward

*Degree to be awarded on the completion of a small amount of additional work.
Work completed + diploma presented 8/17/33.

Master of Arts

Economics and Sociology
Anna Gertrude Hines
Michael Thomas Neary

Geography
Albert Richard Thomas
Sara Frances Waites
*Robert Bonebrake Simpson - 9/29/33

History and International Relations
Isaac Seligson
Fred Waldo Shipman - In absentia

Geography
*Alfred Rockwell Sumner, 9/29/33

Candidates for the Degree of Bachelor of Arts

George Malcolm French Jr.
Lambi Nicholas Adams
Edward Aronovitz
Alfred Wardle Bennett
Gordon Luman Benson
Wallace Frank Bither
Raymond Francis Cardinal
Daniel Joseph Casale
Joseph Sandor Cheka
Maurice James Colbert
Myer Arthur Dworkin
Allan Laidlaw Estabrook
Abraham Falk
Robert Fine
Robert Joseph Fitzpatrick
Louvane Alfred Fox Jr.
Herman Joseph Grimmer
Perry Blackmer Hall
James Harrison
*Russell William Higginbottom
Edward Harry Horovitz
George Everett Howarth
Yngve Walter Johanson
Charles Bernard Kabaker
Louis Theodore Karaku
Urho Korpi
Benjamin Tinkham Marshall Jr.
Theodore Thomas McLaughlin
George Mulvey
David Jillson Parker
John James Pender
Lloyd Politsch
*Joseph Reardon
Emerson Charles Reed
Raymond Serge Roy
Isaac Seligson
Harold Knowland Smith
William John Snape
Solomon Eli Steiman
*Gustav Walter Steinhilber
James Masefield Stevens
George Ramsay Strub
Leo Vincent Sullivan
*Oliver Emil Sundberg
Ernest Anthony Tosi

*Degree to be awarded on the completion of a small amount of additional work. With exception of J. Reardon, work completed + diploma delivered 8/11/33. Mr. Reardon completed his work + received the diploma 10/24/33.

WITH HONOR

Herman Beigelman
Otis Cowan Ferguson
Sydney Jaffe
Toivo Matthews Laakso
Ilmari Fritiof Salminen

WITH HIGH HONOR

Arthur William Back

Candidates for the Degree of Master of Arts

Biology

Evert John Larson

Chemistry

Milan Adelbert Chapin Jr.
Sarkis Melkon Donabedian
Axel Verner Holmgren
Wilho Mathias Salminen
Vincent Martin Walsh
Karl Chism Whitehouse

Economics and Sociology

Randle Edwin Dahl
Walter Albert Durham Jr.
Emil Hirsch Grodberg
Eleanor Margaret O'Donnell
Abraham Slopak
William Harold Somers
Eugene Michael Sweeney
Walter C Wilson

Geography

Gordon Gerald Darkenwald

History and International Relations

Dorothy Adams
Sidney Berengarten
Fannie Bette Cohen
Gertrude Rose Collins
Gladys Franklin
Mildred Amy Henderson
George Spowart McPherson
John Joseph Moran
William Provan Shaw
Joseph Michael Shea
Tillie Mabel Thompson

Psychology

Robert ~~E~~ames Beitel Jr. /J.
Robert Heath Brown
Elaine Kathryn Foraker
Charlotte Elaine Hall
Sidney Harold Newman
Gertrude Raffel
Joseph Roy Smith

Candidates for the Degree of Doctor of Philosophy

Geography

Harley Porter Milstead
George Henry Primmer
Earl Bennet Shaw

History and International Relations

Victor Raymond Edman
Charles Grove Haines
Herschel Heath
Robert Levine
Hugh Mackenzie Morrison
Mary Elizabeth Stewart
Guy Herbert Winslow

Psychology

Barry Casper

Annual Collegiate Honors

SENIORS

First Honors

Arthur William Back
Sydney Jaffe

Second Honors

Herman Beigelman
Perry Blackmer Hall

JUNIORS

First Honors

Thomas Patten Carpenter
Vincent Paul Gruzdzis

Second Honors

Saul Bassinov
Boynton Graham
Charles Francis Johnson
Sydney Edward Wilson

SOPHOMORES

First Honors

Roland Axel Erickson

Second Honors

Walter Scott Allan
Burton Everett Clark
Paul Marcel Glaude

FRESHMEN

First Honors

David Abraham Grodberg
Austin Simon Johnson

Second Honors

Arthur Argoff
William Glover Fletcher
Lawrence Patrick Healy
Leo Lawrence Laskoff
Nathan Millman
John Warren Nystrom
Abraham Solomon
Herbert Ralph Tacker

THE PRENTISS HOYT PRIZE IN POETRY

George Levine, '34, for the poem "Flood Tide"

EDMUND C SANFORD SCHOLARSHIP

Vincent Paul Gruzdzis

Clark University
Summer School Bulletin

The Summer School, 1933
July 3 to August 11

Worcester, Massachusetts
February, 1933

Schedule of Lecture and Recitation Hours

INSTRUCTOR	8	9	10	11	12	AFTERNOON
RIDGLEY	Geography *28	Geography 181				
JONES	Geography 14					Geography 11§, *392Φ, *34
EKBLAW		Geography *27		Geography *285		Geography *37
VAN VALKENBURG	Geography 12		Geography 122		Geography *23	Geography *32
BURNHAM				Geography 192	Geography 190	
LITTLE	Geology 1					
LEE		History 1		History *221		History *26+
BILLINGTON			History *20		History 10	History *26+
BRANDENBURG			Economics *210	Economics 1		
ILLINGWORTH	Education *21	English 1	English 6			
GEOGRAPHY STAFF						Geography *30†

NOTE: All the above courses are Summer School courses. The symbol "SS" before the numeral which distinguishes courses in Summer School from those given during the regular academic year is omitted. *Courses suitable for graduate credit. †Wednesdays at 3. ΦMondays, Wednesdays and Fridays. §All day on Saturdays. +Hours to be arranged.

Calendar

July 3,	Monday, beginning 9 A.M. Registration Day. 12 M. Opening Assembly. 8-10 P.M. Reception to members of the Summer School.
July 4,	Tuesday, Independence Day. Excursion to Plymouth by motor coach.
July 5,	Wednesday, 8 A.M. Lectures and recitations begin.
July 6,	Thursday, 8:30 P.M. Open lecture. "Economics for Today." Dr. Samuel J. Brandenburg.
July 13,	Thursday, 8:30 P.M. Open lecture. "Scandinavia and Socialism." Illustrated. Dr. W. Elmer Ekblaw.
July 20,	Thursday, 8:30 P.M. Open lecture. "Some Aspects of the Peace Problem." Dr. Dwight E. Lee.
July 27,	Thursday, 8:30 P.M. Open lecture. "How to Tell a Mineral When You Meet It." Illustrated. Dr. Homer P. Little.
Aug. 3,	Thursday, 8:30 P.M. Open lecture. "Travels in Colombia and Venezuela." Illustrated. Dr. Clarence F. Jones.
Aug. 10,	Thursday, 8:30 P.M. Final Assembly. Conferring of Degrees.
Aug. 11,	Friday. Summer session closes.
Aug. 12,	Saturday, 8 A.M. Middle West and Chicago Field Trips begin.
Aug. 26.	Saturday. Field Trips end.

All meetings will be held in the Jonas G. Clark auditorium unless announcement to the contrary is given.

Lecture Recitals of American Poetry by Professor Robert S. Illingworth. Tuesday evenings, 7:30, Union Room, First Floor, Jonas G. Clark Hall, open to the public.

July 11, Nonsense Versifiers.
July 18, American Dialect Poets.
July 25, Our Greatest Moderns.
August 1, The War Poets.

COMMITTEE ON THE SUMMER SCHOOL

THE PRESIDENT OF THE UNIVERSITY
THE DIRECTOR OF THE SUMMER SCHOOL
MESSRS. BLAKESLEE, MELVILLE, BRANDENBURG

Published by the University in January, February, March, April, May, June, October, November and December.
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Officers of Instruction and Administration

WALLACE WALTER ATWOOD, PH.D. President of Clark University and Director of the Graduate School of Geography.	Geography
DOUGLAS CLAY RIDGLEY, PH.D. Director of the Summer School and Professor of Geography in Education, Clark University.	Geography
CLARENCE FIELDEN JONES, PH.D. Professor of Economic Geography, Clark University.	Geography
WALTER ELMER EKBLAW, PH.D. Professor of Geography, Clark University.	Geography
SAMUEL VAN VALKENBURG, PH.D. Associate Professor of Climatology and Regional Geography, Clark University.	Geography
WALLACE WALTER ATWOOD, JR., PH.D. Assistant Professor of Physiography and Regional Geography, Clark University.	Geography
GUY H. BURNHAM, A.M. Cartographer, Clark University.	Cartography
HOMER PAYSON LITTLE, PH.D. Dean of the College and Professor of Geology, Clark University.	Geology
DWIGHT E. LEE, PH.D. Associate Professor of Modern European History, Clark University.	History
RAY ALLEN BILLINGTON, A.M. Instructor in History, Clark University.	History
SAMUEL J. BRANDENBURG, PH.D. Professor of Economics and Sociology, Clark University.	Economics
ROBERT S. ILLINGWORTH, A.M. Associate Professor of English, Clark University.	English
LYDIA P. COLBY	Recorder
FLORENCE CHANDLER	Bursar

The Summer School at Clark University

Clark University is now laying special emphasis on fields of study that lead to a better understanding of national and international problems. Geography, Economics, and History and International Relations are of fundamental importance to all students interested in the solution of the larger problems now before the world.

The Summer School program is concentrated in a few closely related departments of study—Geography, Geology, History, Economics, English, and Education. The rich library resources in these fields give opportunity for wide reading.

The work of the Summer School is intensive. Courses meet five times a week. Three courses are considered a full program. Many students will find it advantageous to concentrate all their energies on the work of two courses or even on a single course.

LOCATION AND BUILDINGS

Clark University is located on Main Street about a mile and a quarter southwest of the City Hall. Trolley cars run directly past the University. Taxicab service is available at moderate price.

The office of the Summer School is located in the Jonas G. Clark Hall, which contains also the general offices of the University. Most of the exercises of the Summer School are held in this building. The office of the President of the University and the Geography workroom are in the Geography Building where some classes are held.

In the Science Building are located the lecture room and laboratories of the departments of Physics and Chemistry.

All the classroom, library, and laboratory facilities of the University, so far as they pertain to the subjects of instruction offered, are at the disposal of students of the Summer School.

THE LIBRARY

The Library of the University was provided with a generous endowment by the founder of the Institution, and affords favorable opportunities for study and research. The Library now owns more than 140,000 bound volumes and pamphlets, and the Reading Room receives more than 500 journals. All the privileges of the Library are open to all members of the University, and each member has direct access to every book and journal.

In addition to the library facilities provided by the University, students may avail themselves of the privileges of other excellent libraries in the city. The Worcester Public Library contains 250,000 volumes. The Library of the American Antiquarian Society, housed in the national headquarters of the Society in Worcester, contains more than 500,000 volumes and pamphlets. These libraries are pleased to serve Summer School students.

ADMISSION TO THE SUMMER SCHOOL

Graduates of colleges, technical schools, normal schools, or secondary schools, college students, and teachers in schools of any grade are admitted as a matter of course upon application. Other applicants are admitted upon approval of their qualification for the work which they desire to do.

Students in the College Division of Clark University who desire to have work done in the Summer School credited toward an A.B. degree are required to obtain the approval of the College Board.

REGISTRATION

Persons who desire to enter the Summer School should detach and fill out the application form which is printed at the end of this BULLETIN and forward it, with the registration fee of two dollars, to the Clark University Summer School. The amount of the registration fee will be deducted from the tuition fee when the latter is paid. Checks should be made payable to Clark University.

The registration of all students in all courses should be completed on July 3. To this end students should, as far as possible, determine before the opening of the session, through personal conference or correspondence with the Director, or the various instructors, the courses in which they expect to register.

Formal registration will take place between 9 A.M. and noon on Monday, July 3, in Jonas G. Clark Hall. All instructors will be on hand for consultation and for signing registration cards between these hours. The opening assembly of the Summer School will be held in the Auditorium, July 3, at twelve o'clock. Classes will not meet on Independence Day, July 4, but class work will begin promptly on Wednesday morning.

CREDIT FOR WORK DONE

Some of the courses of instruction in the Summer School are of college grade, others are strictly graduate courses, and many are equally suitable for advanced undergraduates or graduate students.

Unless otherwise announced, each course is designed to cover the equivalent of two semester hours of credit, and is so credited when applied toward a degree in Clark University. Three courses constitute a full schedule; a maximum of four courses may be taken, but only with the consent of the Director. With the consent of the instructor, students may attend other classes as auditors.

A certificate, with a statement of courses taken and grades received, will be furnished at the close of the session to all students who desire it. In order to obtain a prompt report, students should leave a stamped and addressed envelope at the Recorder's office during the last week of the session.

Summer School courses may be applied toward the fulfillment of the requirements for the degree of Bachelor of Arts, Bachelor of Education, or Master of Arts, *subject to the general regulations of the University.*

TUITION AND FEES

Students taking two or three courses pay a fee of thirty-five dollars; those who desire to take but one course may do so upon payment of a fee of twenty dollars, which entitles them also to all special privileges of the Summer School. The same charge is made whether students register as auditors or for credit. Students who take a fourth course for credit, will pay an additional tuition fee of $10, to be paid as a separate item by the end of the second week of the term. For a statement of fees for Field Trips conducted by the Summer School, see pages 15 and 16.

Students registering in the Summer School who have not previously been enrolled in Clark University are required to pay a matriculation fee of five dollars. The fee is paid only once and is not returnable.

Tuition may be paid at any time before 5 P.M. of Friday, July 7. Checks should be made payable to Clark University.

BOARD AND ROOMS

The rooms in the college dormitory, Estabrook Hall, will be available for women students during the Summer School. These rooms are exceedingly attractive and are furnished with everything necessary *except bedding.* The Hall is very conveniently located. A number of two-room suites for two persons rent for $4 per week, per occupant. One person may secure a two-room suite for $7 per week. A few large rooms, each suitable for two persons, are rented at $3 per week, per occupant; for one person, $5 per week. Bedding will be provided for an additional charge of $1.50 per person, per week. Early correspondence is invited. Good rooms may be had in private homes near the University. Good meals, at moderate prices, may be secured in the vicinity of the University.

The Faculty House, on Woodland Street across from the University, has a few rooms available for Summer School students.

THE BACHELOR OF ARTS DEGREE

Students who have been admitted to the Undergraduate Department of the University may secure not more than six semester hours of credit toward the Bachelor of Arts degree in any one summer session on condition that permission be secured in advance from the College Board and that programs of study be approved by the Dean of the College.

THE BACHELOR OF EDUCATION DEGREE

The degree of Bachelor of Education is offered primarily to teachers, both men and women. A two-year Normal School course or its equivalent is a prerequisite for admission to candidacy and a year of teaching experience is a prerequisite for the degree.

Candidates for this degree may earn the necessary residence credit by attendance at the Summer School or by enrolling in extension courses offered at the University during the regular academic year, or in such regular university courses as may be open to them.

Women who are candidates for this degree will usually not find it possible to secure a full program of courses during the regular academic year.

A normal program for Summer School students consists of three courses, each yielding two semester hours of credit. Two extension courses, each yielding two semester hours of credit, constitute a normal program for teachers in service. Credit toward the degree may also be earned through the Home Study Department and in connection with the field trips offered by the Summer School, but credit so earned may not be used to reduce the minimum residence requirement of 30 semester hours.

Courses designated as "College Courses for Adults" are offered during the regular academic year on Saturday morning and on certain afternoons for the convenience of candidates for this degree who are teaching in or near Worcester. By taking advantage of these courses it is possible for a teacher to complete in four years the equivalent of a year of study in residence.

The general administration of regulations applying to the degree of Bachelor of Education is lodged with the Committee on College Courses for Adults and Special Students, for which the secretary, Professor C. E. Melville, acts as the administrative officer in dealing with students. The regulations applying to this degree are summarized in the following paragraphs.

1. ADMISSION REQUIREMENTS. The completion of a standard two-year course in a Massachusetts State Normal School, or the reasonable equivalent of such a course.

2. REQUIREMENTS FOR THE DEGREE:
   a. At least one year's teaching experience.
   b. At least 30 semester hours of credit earned *in residence* at Clark University.
   c. 120 semester hours of college credit, including advanced standing based upon the admission requirements.
   d. Requirements in particular subjects:
      (1) Six semester hours in Psychology or Education taken after the completion of the two-year Normal School course.
      (2) Six semester hours of Laboratory Science taken after the completion of the two-year Normal School course.
      (3) Ten semester hours of English, which may be taken in whole or in part in the Normal School course.
      (4) Ten semester hours in foreign language, which may be taken in whole or in part in the Normal School course.
      (5) Twelve semester hours of Economics, Geography, Government, History, or Sociology, at least six of which must be taken after the completion of the two-year Normal School course.

3. STANDARD OF SCHOLARSHIP. The same standard of scholarship is required of candidates for this degree as for the degree of Bachelor of Arts.

4. ADVANCED STANDING:
   a. Credit of 54 semester hours will normally be given for the standard two-year course in a Massachusetts State Normal School. This may be reduced in special cases.
   b. Credit will be allowed for work done at other Universities, Colleges, or Normal Schools, subject to reasonable regulations.

c. Not more than 30 semester hours credit may be allowed for home study or extension courses other than the extension courses offered by Clark University expressly for candidates for this degree. The acceptance of any work of this type is subject to the approval of the secretary of the Committee.

5. Lapse of Candidacy. By vote of the committee on the degree of Bachelor of Education candidacy terminates automatically whenever for a period of two years or more a candidate has failed to complete any course in Clark University yielding credit toward the degree. A candidacy terminated under this rule may be renewed by action of the committee, and such renewal may involve a revision of allowances previously made, both in respect to total credit, and requirements in particular subjects.

Inquiries regarding the degree of Bachelor of Education should be addressed to the Recorder of the University.

Special Courses for Teachers. In keeping with its long established policy, Clark University offers a series of College Courses for Adults designed both in respect to content and time of meeting for teachers in the public schools of Worcester and the surrounding region. These courses are also open to the general public. When occasion arises the subject of aims and methods of teaching is treated in some of these extension courses.

THE MASTER OF ARTS DEGREE

The Summer School provides a sequence of graduate courses in successive summers whereby students who are formally admitted to the Graduate Division of the University may secure the degree of Master of Arts by devoting themselves exclusively to graduate study during a minimum period of one semester of the regular academic year, and three summer sessions, or their equivalent in field trips or other residence work, preparing an acceptable thesis, and passing a satisfactory oral examination. Graduate credit may be obtained only in those courses designated by an asterisk (*) in the announcement of courses in this Bulletin. *All programs of work to be applied toward the requirements for the degree of Master of Arts must be approved in advance by the major department concerned.*

Early correspondence is requested by all who wish to begin work for graduate credit. Address, Secretary of Graduate Board.

OUTSIDE ACTIVITIES

The Summer School not only provides a daily program of serious work, but affords opportunity for relaxation and enjoyment as well. Public lectures, entertainments, excursions, and visits to Boston or other neighboring cities provide variation in the regular program. Tennis courts are available for the use of students.

EXCURSIONS

Four Saturday field studies will be conducted as a part of the regular Summer School program. An excursion, open to all who wish to go, will be planned for Independence Day, July 4, to Plymouth by motor coach. Other trips will be arranged to meet the wishes of students.

THE SUMMER SCHOOL ASSOCIATION

The Summer School Association was organized by the students at the first session of the Summer School in 1921. The Association promotes the social activities of the school during the summer session and holds an annual reunion during the year. Every student is urged to participate in the activities of the Association as they develop during the term.

NEW YORK STATE CLUB

The New York Club of Clark University was organized in 1928. It will hold its first meeting of the summer session of 1933 at 2 P.M., Monday, July 3, in Room 120, first floor of Jonas G. Clark Hall. All members of the Summer School from New York State are requested to be present.

SUMMER TOURIST RAILROAD RATES

Summer Tourist Railroad Rates from Chicago and places west of Chicago will probably be in effect from June to October. Inquiry should be made at local ticket offices.

THE SUMMER SCHOOL ROSTER

The names of students of the Summer School, with their home addresses, will be found in the General Catalogue of the following academic year. Students who desire a list should write to the University after February 1, of the following year.

Department Announcements

The right is reserved to withdraw any course listed in the event of a registration too small to justify its being given.

Courses marked with an asterisk (*) *are primarily for advanced students.*

GEOGRAPHY

The courses in geography announced here include undergraduate and graduate courses in the several phases of the subject. Certain fundamental courses are offered every summer. Others are given every other year or occasionally.

Students whose assignments involve the preparation of maps or who wish to practice map-making will appreciate the opportunity for special help by the cartographer, Mr. G. H. Burnham, in the geography workroom.

***SS28. Geography in Education for Special Teachers.** Members of the class work on individual problems and report progress. Units of study, specific problems of next year's teaching, courses of study in elementary grades, junior high school, senior high school, and teachers college, and objectives in geography, are some of the topics that have been treated by students in this course.

Daily, except Saturday, at 8. DR. RIDGLEY

SS181. The Teaching of Geography. The scope and purpose of geography, methods of presentation at various grade levels, an examination of textbooks and library references. The Yearbook in Geography, 1933, will be surveyed.

Daily, except Saturday, at 9. DR. RIDGLEY

SS14. Economic Geography. A study of the relation of physical and economic conditions to the fishing, grazing, farming, lumbering, mining and manufacturing regions of the world.

Daily, except Saturday, at 8. DR. JONES

SS11. Saturday Field Trips. Reconnaissance studies of four representative regions of New England by motor coach: No. 1, Connecticut Valley; No. 2, Blackstone Valley and Narragansett Bay; No. 3, The Port of Boston; No. 4, New England Upland and Mount Monadnock. Transportation costs for all trips, $12. Single trips, $3.50 per person. One semester hour of credit for satisfactory completion of the course. These field trips supplement all classroom courses in geography and in American history.

All day Saturday. DR. JONES

***SS392. Field Studies.** An intensive field study of a small locality, primarily for candidates for the degree of Master of Arts in Geography; open to advanced undergraduates by special permission.

Monday and Friday afternoons, 1:00 to 5:00, in the field.
Wednesday afternoons, 2:00 to 3:00, discussion. DR. JONES

***SS27. Influences of Geographic Environment.** A survey of man's occupancy of the earth to determine the part that geographic influences have played in shaping the movements of peoples, the course of civilization and racial development, and the destiny of nations.

Daily, except Saturday, at 9. DR. EKBLAW

***SS285. Geography of Europe.** A regional analysis of the geographic bases of the internal and international problems which Europe faces today, particularly in their relation to American affairs.

Daily, except Saturday, at 11. DR. EKBLAW

× **SS12. Weather.** and climate. A general treatment of weather for practical purposes of teachers, as well as a basis for the understanding of climate.

Daily, except Saturday, at 8. 10. DR. VAN VALKENBURG

~~**SS122. Climates of the World.** A short but complete review of the climatic regions of the world with special reference to the influence of climate on man and his economic activities.~~

~~*Daily, except Saturday, at 10.*~~ DR. VAN VALKENBURG

***SS23. Geography of Asia.** A general introduction to the geography of Asia, followed by a more detailed study of some outstanding Asiatic geographical problems.

Daily, except Saturday, at 12. DR. VAN VALKENBURG

SS190. Mathematical Geography. A study of the earth's form, size and motions; its relations to the other bodies of the Universe; latitude and longitude; seasons; zones; tides; almanacs; time; calendars; changing length of day and night with practical applications to map making, surveying, navigation and other phases of every-day life.

Daily, except Saturday, at 12. MR. BURNHAM

SS192. Map Interpretation and Appreciation. An analysis of various types of maps and methods of making them. The relation of maps

× Accepted towards fulfillment of requirement in lab. science for B. Ed. degree.

to the globe; a study of map terms, map symbols, map scales, place relationship; interpretation of related maps. A course designed to aid teachers in using maps more effectively in the classroom.

Daily, except Saturday, at 11. MR. BURNHAM

*SS30. **Seminar in Geography.** An organized discussion of research problems and theses. Attendance is required of all students preparing theses, or conducting research.

Wednesday, at 3. THE GEOGRAPHY STAFF

*SS32. **Research in Climatology, or in Geography of Asia.** For properly qualified students. DR. VAN VALKENBURG

*SS34. **Research in Economic Geography, or in Regional Geography.** For properly qualified students. DR. JONES

*SS37. **Research in Human Geography, or in Geography of Europe.** DR. EKBLAW

GEOLOGY

SS1. **Physical Geology.** About one third of this course will be spent in studying common minerals and rocks. The remaining time will be spent in a scientific study of the origin of scenery through the work of wind, water, ice, and sub-surface forces. Instruction in the use of topographic maps will be included. Laboratory fee of $2.00, payable to the Bursar.

Four lecture-recitation periods at 8, and a Thursday afternoon laboratory period weekly. DR. LITTLE

HISTORY

SS1. **History of Europe, 1500 to 1830.** A survey course in which the revised edition of C. J. H. Hayes, *A Political and Cultural History of Modern Europe,* Volume 1, will be used. Open to graduate students with special permission.

Daily, except Saturday, at 9. DR. LEE

*SS221. **Post War International Relations of Europe.**

Daily, except Saturday, at 11. DR. LEE

*SS26. **Introduction to Historiography and Criticism.** A survey of present historical writing and introduction to methods of research in history for advanced students.

Hours to be arranged. DR. LEE AND MR. BILLINGTON

SS10. **American History to 1840.** After a brief survey of the colonial beginnings of American history and the American Revolution, this course will treat carefully the period from 1783 to 1840. Emphasis will be placed on the newer point of view in the study and writing of history.

Daily, except Saturday, at 12. MR. BILLINGTON

*SS20. **Social and Intellectual History of the United States, 1825-1900.** This course will trace with considerable detail the evolution

of American life from Jackson's administration to the close of the nineteenth century. Economic movements, humanitarian reforms and religious developments will be stressed as well as artistic and intellectual progress.
Daily, except Saturday, at 10. MR. BILLINGTON

ECONOMICS

SS1. Principles of Economics. The complete course, offered in two parts, SS1, in 1933, SS2 in 1934, is the equivalent of Economics 11, offered three hours a week through both semesters of the regular academic year. SS1 stresses particularly the economic principles underlying the production, valuation, distribution, and use of goods. Readings, discussions and written tests.
Daily, except Saturday, at 11. DR. BRANDENBURG

***SS210. Economic and Social Reform Programs.** The historical and economic background of various European and American reform movements; socialism, particularly in its modern devolopments, as a criticism of existing institutions and as a program of social reform; recent proposals and experiments seeking a higher degree of economic security and social stability. A critical attitude is maintained throughout. Lectures, readings, discussions.
Daily, except Saturday, at 10. DR. BRANDENBURG

ENGLISH

SS1. Modern Drama. A study of the technique and practice of the modern drama, as illustrated in the works of Ibsen and the best modern dramatists of England and America.
Daily, except Saturday, at 9. PROFESSOR ILLINGWORTH

SS6. American Poetry 1630-1930. A rapid survey of three centuries of American Poetry. Lectures, readings, class discussions.
Daily, except Saturday, at 10. PROFESSOR ILLINGWORTH

Dramatics: During the session at least one three-act play will be presented, and a one-act play as a part of the Commencement program. Students interested in this work should report to Mr. Illingworth.

Note. During the summer session, Professor Illingworth will give a series of Lecture Recitals at 7:30 on Tuesday evenings. These are open to all who are interested. Meetings in the Union Room, first floor of Jonas G. Clark Hall. For subjects, see page 3.

EDUCATION

***SS21. Extra Curricular Activities.** The following subjects will be developed: Principles Underlying Extra Curricular Activities, Homeroom Organization and Activities, The Student Council, The Assembly, Clubs, Dramatics, Musical Organizations and Activities, Literary Societies, Debating, Secret Societies, Student Participation in Control of Study Halls and Libraries, Citizenship and School Spirit, Manners and Courtesy, Athletics, School Trips and Excursions, Parties, School Publications,

Grad. credit not justified - not announced as such in catalog + not recognized by a grad. dept.

Honor Societies, Commencement Programs, School Banks, and Financial Administration of Extra Curricular Activities.

Daily, except Saturday, at 8. PROFESSOR ILLINGWORTH

FRENCH AND GERMAN

While no provision is made for regular courses in French and German, students who wish to pursue either or both of these languages during the Summer Session may make arrangements to do so. A skilled instructor is available for lessons in French and German to individuals or groups at moderate cost. The lessons, if desired, will be given at the University. The work in these languages will be adapted to the individual needs of the students whether for elementary or advanced work, or for a reading knowledge of scientific works. Further information will be given on request.

HOME STUDY COURSES IN GEOGRAPHY

Clark University is now offering Home Study Courses for the benefit of those interested in the study and in the teaching of geography. These courses may be begun at any time and pursued as rapidly as opportunity for study affords. Many teachers pursue these home study courses during the school year while teaching. Other teachers who have not found convenient opportunity to attend summer school have made rapid progress in home study work while at home during the summer vacation. Each course carries three semester hours of college credit toward the Bachelor's degree at Clark University. The tuition fee for each course is $18. As soon as the tuition fee is received the complete set of lessons is forwarded. Sample lessons of one or two courses will be sent on request. Address: Clark University, Home Study Department, Worcester, Massachusetts.

The following Home Study Courses are now ready:

COURSES ON THE TEACHING OF GEOGRAPHY

1. The Teaching of Geography in the Elementary School.
1a. The Teaching of Geography Based on the New York State Syllabus, Grades 3, 4, 5, and 6.
2. The Teaching of Home Geography and World as a Whole.
2a. The Teaching of Third Grade Geography of the New York State Syllabus.
3. The Teaching of North America.
4. The Teaching of South America, Europe, and Asia.
5. The Teaching of Geographic Factors and the United States in its World Relations.
5a. The Interpretation of the Globe, Maps, and Graphs.

ACADEMIC COURSES IN GEOGRAPHY

6. Industrial and Commercial Geography.
7. Geography of North America.
8. Geography of South America.
9. Geography of Europe.
10. Home Study Course for European Travel.
11. Geography of the Eastern Continents.
12. The Physical Geography of the Lands.
13. Fundamentals of Climate.
14. Climates of the World.
15. Climatology of the United States.
16. Mathematical Geography.
17. Graphics and Cartography.
18. Special Studies in Geography.

Special attention of teachers and students who cannot attend Summer School is called to the opportunity offered by these home study courses to secure the same amount of college credit through home study courses as through the regular summer school period. Two home study courses give the same amount of college credit as the regular program of the summer school session. By enrolling early for a home study course, plans can be made for prompt and steady progress immediately at the beginning of the summer vacation. The completion of one or two home study courses during the summer can be readily accomplished.

FIELD TRIPS DURING AND AFTER THE SUMMER SESSION

The field trips of 1933 are a continuation of a plan inaugurated by Clark University Summer School in 1924, for the study of geography and history out-of-doors.

Field Studies in the Rocky Mountains of Colorado. Field work from headquarters camp in the mountains, June 5 to July 25. Detailed studies in the physiography of the Rocky Mountains and land utilization of the area. Emphasis will be placed on identification of the physiographic and geologic forms usually described in textbooks but frequently not recognized in the field. Open to men only. Students must be prepared for rough mountain life. All cooking will be done by the party.

Tuition, same as for three courses at the University. Credit for satisfactory work, six semester hours.

Minimum cost for transportation and living expenses from Worcester back to Worcester, for a group of students traveling in their own automobile, estimated at $175 per person.

Students must have completed a minimum of six semester hours of geography or geology, and preferably twelve hours or more.

For details of the trip, address Clark University Summer School or the instructor, Dr. Wallace W. Atwood, Jr., Clark University.

Middle West and Chicago World's Fair Trip from Worcester. Saturday, August 12, to Saturday, August 26, 15 days. ~~Dr. W. Elmer Ekblaw~~ ISABELLE K. HART of Clark University will conduct a field trip immediately following the summer session to the Middle West. The route westward will be to the south of the Great Lakes. Two or three days will be spent in a study of the exhibits at the Chicago World's Fair. The eastward route will cross southern Canada. The geographic influences in human life in country and in city will be observed and explained.

Credit for satisfactory work, two semester hours. Cost of trip: Transportation $60, tuition $15. Hotel reservations will be made for the party. The total neces-

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To the Clark University Summer School:

I wish to be enrolled as a student in the Summer School for 1933, and enclose with this the Registration fee of two dollars.

Name ....

Address ....

Date ....

Occupation during the past academic year ....

....

....

Graduate of what college, normal school, or other educational institution, with date of graduation?

....

....

....

(OVER)

sary expense will probably not exceed $150. For further details, address Clark University Summer School or Dr. W. Elmer Ekblaw.

Middle West and Chicago World's Fair Trip from Oswego, New York. Saturday, August 12, to Saturday, August 26, 15 days.

This is the fifth field trip of the Clark University Summer School planned especially for the teachers of New York State. This trip, as in previous years, will be conducted by Mrs. Isabelle K. Hart, Instructor in Geography, State Normal School, Oswego, New York. The westward itinerary will include the Finger Lakes region, the south shore of Lake Erie, and the dune region of Indiana. Three days will be spent in the study of the exhibits at the Chicago World's Fair. The eastward itinerary includes the shores of Lake Huron, Lake Simcoe, and Niagara Falls.

Credit for satisfactory work, two semester hours. Cost of trip: Transportation $60, tuition $15. Hotel reservations will be made for the party. The total necessary expense will probably not exceed $150.

An illustrated folder with detailed information of the trip will be sent on request. Address Clark University Summer School, or Mrs. Isabelle K. Hart, State Normal School, Oswego, New York.

PUBLICATIONS FOR GEOGRAPHY TEACHERS AND HISTORY TEACHERS

Clark University has published three pamphlets of special value to teachers of geography, and one of special value to teachers of history and the social studies.

1. Frederick K. Branom: *A Bibliography of Recent Literature on the Teaching of Geography.* More than 600 references. 25 cents.
2. Ella B. Knight: *A Bibliography of Geographical Literature for Elementary Grades and Junior High School.* More than 500 choice books listed. 25 cents.
3. Douglas C. Ridgley: *A Study of Children's Learning about Places.* A monograph with a classified list of 1200 places. 80 cents.
4. Edgar C. Bye: *A Bibliography on the Teaching of the Social Studies.* More than 800 references. 25 cents.

These four publications will be sent to any address, postpaid, for $1.00 in a single order.

5. *Economic Geography,* a quarterly journal published by Clark University. $5.00 per year.

TENTATIVE LIST OF SUMMER SCHOOL COURSES WHICH APPLICANT DESIRES TO ENTER

....

....

....

....

....

(Describe by Subject and Number, i.e., Geography 101)

Have you been accepted as a candidate for a degree? ....

At what institution? .... What degree? ....

Have you ever attended the Clark University Summer School? ....

If so, what was year of last attendance? ....

CLARK UNIVERSITY

Alumni Fund

1932-1933

ALUMNI FUND BOARD

LEON E. FELTON, *Chairman*
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ROBERT S. ILLINGWORTH, *Alumni Secretary*

WORCESTER, MASSACHUSETTS . . . . FEBRUARY 1933

The Alumni Fund

The Clark University Alumni Fund was started by the Clark Alumni two years ago. Similar fund plans have for many years been an essential part of the financial life of other institutions. The plan was adopted at Clark because Alumni who had seriously studied the problem believed that the universal success of other universities would be repeated at Clark. If you have carefully considered the fund literature which has come to you during the past two years, you must feel, as your Fund Board and the University authorities do, that our fund plan is successful.

Every alumnus of a University constantly realizes that the education he received at a fraction of its actual cost, the countless pleasant and enriching experiences he enjoyed, the many fine friendships he formed, during his three or four years at his "Alma Mater" have done much to make his life both successful and happy. He often feels that he would like to find some practical means of showing his appreciation.

The natural method of showing appreciation to a University is thru financial help. Obviously, every University can always find good use for additional funds. Also, obviously, few Alumni of a small University can give in large amounts. It is true, too, that few Alumni can believe that the small gifts they are able to make will afford any practical benefit.

The Alumni Fund offers very close to the ideal solution of this problem. Special drives for large amounts may be very embarrassing. Fixed assessments become irksome. The fund plan avoids all unpleasantness. Each year each Alumnus has the privilege of contributing whatever amount his constant interest and his present means will permit.

The individual gift may be small. The annual total may seem relatively small. Yet the little additional sum which the Fund can guarantee to the University may prove to be just the one thing that enables the work to go on unimpaired.

What We Are Doing

That is percisely what is happening at Clark University. Your Fund Board, cooperating with President Atwood and the Trustees of the University, are working out the most practical problem they could find. An educational campaign among eastern secondary schools resulted last fall in a material increase in the number of college freshmen. That you may know the emphasis was not placed on mere numbers, we are pleased to note that the new men are making a most enviable record in scholarship.

Other established institutions have been doing this type of work for years. We are now in the midst of our second year. Our Alumni Secretary, "Bob" Illingworth, is giving half his time visiting high schools and academies to interest boys in going to college. He does no proselyting, but occasionally he finds a boy who should come to Clark. This work must be continued over a period of years if it is to have any lasting value. It can be continued only thru help from the Alumni Fund.

THE VALUE OF OUR WORK

Next year the income from the invested funds of the University will for the first time in many years be decreased. The additional income from tuition fees paid by freshmen may be just enough to enable the University to continue its work without making unfortunate retrenchments.

We have every reason to believe that the next entering class will have an additional twenty-five students. Not only does a larger student body mean additional income, but also it means a healthier, happier, more beneficial student life. President Atwood has set the goal at five hundred college students, the number which Clark can educate to best advantage. With your help we shall have that number in three years.

Remember, too, that if our Fund can help to solve the social and financial problems of the College, the problem of maintaining and expanding the work of the graduate departments will be much simplified.

YOUR OPPORTUNITY

We extend this first invitation to contribute to the Alumni Fund for 1932-1933 with confidence. We realize that we are at the critical period in the life of the Fund. In your name we have started a work which must not fail. The University is your university, the Fund is your fund. You have intrusted us with an important business. We believe the Clark spirit is alive in you, and that you will help us to carry on.

SEND A BOY TO CLARK

1. Clark gives high-grade college education at low cost.
2. Clark provides superior professors, with world-wide reputations in their respective fields.
3. Clark permits close individual attention thru small classes.
4. Clark has one of the largest and finest of university libraries, typical of its facilities for building mind and character.

5. Clark has graduated hundreds of successful professional and business men—definite proof that a Clark education provides ability to compete with the world.

Do It Now

The most helpful response you can make is to send your check now.

Make checks payable to Clark University Alumni Fund.

Letters are always welcome at the Alumni Office.

ATTENTION! - ALUMNI!

Clark Night, Saturday, March 18, 1933

DINNER

in Honor of President Atwood and Dr. Blakeslee

Alumni Glee Club Dancing

Alumni Follies

Worcester County Alumni please note that the first rehearsal of the Alumni Glee Club will be held in Plymouth Church, Thursday, February 16, at 8:00 P. M. Call R. S. Bartlett for particulars.

Alumni Day, Saturday, June 4, 1933

Reunion Classes: 1908, '13, '18, '23, '28, '32

Alumni Luncheon

Dramatic Production Dancing Class Dinners

Alumni Parade

Varsity-Alumni Baseball Game

Clark University Bulletin

Catalogue Number

Worcester, Massachusetts

January, 1934

Clark University Bulletin

NUMBER 108 JANUARY, 1934

CATALOGUE NUMBER

The Catalogue is a record for the current academic year, 1933–34. Such announcements for the year 1934–35 as can be made at the time of publication are included.

The Bulletin is published in January, February, March, April, May, June, October, November, and December

Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in section 1103, Act of October 3, 1917 authorized January 24, 1921.

HISTORICAL NOTE

Clark University owes its existence to the interest in higher education of Jonas Gilman Clark, who was born at Hubbardston, Worcester County, Massachusetts, February 1, 1815. Conscious of the meagerness of his own early educational opportunities, he devoted his later years to the establishment and nurture of the institution which bears his name. In this he was ably assisted by his wife, Susan W. Clark, and by prominent citizens of Worcester. Mr. Clark died at Worcester on May 23, 1900.

The charter of the University was granted by the General Court of Massachusetts in 1887. The Graduate Division, with Granville Stanley Hall as president, received its first students in 1889. Special provision was made in Mr. Clark's will for the establishment of an Undergraduate Division with its own president but under the same general control as the Graduate Division. Carroll Davidson Wright was chosen president of the Undergraduate Division and students were first received in October, 1902. After the death of President Wright in 1909, Edmund Clark Sanford, then Professor of Psychology in the Graduate Division, was chosen as President of the college.

In June, 1920, Presidents Hall and Sanford resigned and Wallace Walter Atwood was elected to the presidency of both the Graduate and the Undergraduate Divisions of the University.

During the academic year 1920–21 the two faculties continued their separate organizations while plans for unification were being worked out. These plans, approved by the Board of Trustees, went into effect in 1921–22 and provided for the fusion of the two faculties into a single body.

With the election of President Atwood, provision was made for the establishment of a Graduate School of Geography, and work in that school was begun in the fall of 1921.

A Summer School with a six weeks' session has been conducted each year, beginning in 1921.

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CALENDAR

The academic year begins on the Tuesday before the fourth Thursday in September. Commencement Day is the thirty-seventh Monday following (the first or second Monday in June).

The first semester ends on the Saturday before the nineteenth Monday and the second semester begins on the nineteenth Monday of the academic year.

1933

Sept. 26	Tuesday	Beginning of academic year.
Nov. 30	Thursday	Thanksgiving Day. A holiday.
Dec. 20	Wednesday	Beginning of Christmas recess at 6 P. M.

1934

Jan. 4	Thursday	End of Christmas recess at 8 A. M.
Jan. 15–20		Registration days for second semester.
Jan. 22	Monday	Beginning of semester examination period.
Feb. 1	Thursday	Founder's Day. Not a holiday.
Feb. 3	Saturday	End of first semester.
Feb. 5	Monday	Beginning of second semester.
Feb. 10	Saturday	Last day for changes in undergraduate programs. Last day for receiving applications for admission to candidacy for the degree of Master of Arts in June, 1934.
Feb. 14	Wednesday	Last day for payment of term bills.
Feb. 22	Thursday	Washington's Birthday. A holiday.
Feb. 28	Wednesday	Last day for receiving applications for graduate scholarships and fellowships for 1934–35.
Mar. 31	Saturday	Mid-semester reports. Beginning of Spring recess at 1 P. M.
Apr. 9	Monday	End of Spring recess at 8 A. M.
May 28	Monday	Beginning of semester examination period.
May 30	Wednesday	Memorial Day. A holiday.
June 7	Thursday	Last day of semester examinations.
June 8	Friday	Dissertations and theses for the Ph.D. and M.A. degrees are due at the office of the Recorder at 9 A. M.
June 11	Monday	Commencement Day.
July 2	Monday	Summer School opens. Registration day.
July 7	Saturday	Last day for payment of Summer School tuition.
Aug. 9	Thursday	Final Assembly of the Summer School at 8 P. M. Conferring of degrees.
Aug. 10	Friday	Summer School closes.
Sept. 25	Tuesday	Beginning of academic year. Registration day.
Oct. 2	Tuesday	Last day for changes in undergraduate programs.
Oct. 6	Saturday	Last day for payment of term bills.
Oct. 12	Friday	Columbus Day. Not a holiday.

Oct. 31	Wednesday	Last day for receiving applications for admission to candidacy for the degree of Doctor of Philosophy in June, 1935.
Nov. 11	Sunday	Armistice Day.
Nov. 24	Saturday	Mid-semester reports.
Nov. 29	Thursday	Thanksgiving Day. A holiday.
Dec. 19	Wednesday	Beginning of Christmas recess at 6 P. M.

1935

Jan. 3	Thursday	End of Christmas recess at 8 A. M.
Jan. 14–19		Registration days for second semester.
Jan. 21	Monday	Beginning of semester examination period.
Feb. 1	Friday	Founder's Day. Not a holiday.
Feb. 2	Saturday	End of first semester. Last day for receiving applications for undergraduate scholarships for the second semester.
Feb. 4	Monday	Beginning of second semester.
Feb. 9	Saturday	Last day for changes in undergraduate programs. Last day for receiving applications for admission to candidacy for the degree of Master of Arts in June, 1935.
Feb. 14	Thursday	Last day for payment of term bills.
Feb. 22	Friday	Washington's Birthday. A holiday.
Feb. 28	Thursday	Last day for receiving applications for graduate scholarships and fellowships for 1935–36.
Mar. 30	Saturday	Beginning of spring recess at 1 P. M. Mid-semester reports.
Apr. 8	Monday	End of spring recess at 8 A. M.
May 27	Monday	Beginning of semester examination period.
May 30	Thursday	Memorial Day. A holiday.
June 6	Thursday	Last day of semester examinations.
June 7	Friday	Dissertations and theses for the Ph.D. and M.A. degrees are due at the office of the Recorder at 9 A. M.
June 10	Monday	Commencement Day.

BOARD OF TRUSTEES

Herbert Parker (1907) Vice President	South Lancaster, Mass.
Arthur P. Rugg (1910)	Worcester, Mass.
Charles H. Thurber (1913), President	Boston, Mass.
George H. Mirick (1920), Treasurer	Worcester, Mass.
Frederic B. Washburn (1925)	Worcester, Mass.
Alexander H. Bullock (1926)	Worcester, Mass.
Leon E. Felton (1930) Secretary	Worcester, Mass.
Francis H. Dewey, Jr. (1934)	Worcester, Mass.

Final authority in all matters pertaining to the University is lodged in the Board of Trustees by charter granted by the General Court of the Commonwealth of Massachusetts.

ADMINISTRATIVE OFFICERS

President of the University and Director of the Graduate School of Geography	W. W. Atwood, Sr.
Acting Librarian	Edith M. Baker
Dean of the College	H. P. Little
Director of the Summer School	D. C. Ridgley
Director of Extension Courses	P. H. Churchman
Director of the Home Study Department	D. C. Ridgley
Recorder	Lydia P. Colby
Bursar	Florence Chandler

UNIVERSITY STAFF

THE UNIVERSITY FACULTY

(Listed in order of academic seniority within each rank.)

Wallace Walter Atwood, Ph.D. 160 Woodland St.
President, Professor of Physical and Regional Geography, and Director of the Graduate School of Geography.

Louis N. Wilson, Litt.D. 11 Shirley St.
Librarian 1889–1929. Librarian Emeritus.

Henry Taber, Ph.D. 2 Pleasant Place
Professor of Mathematics, 1903–21. Professor Emeritus.

William Henry Burnham, Ph.D. Bancroft Hotel
Professor of Education and School Hygiene, 1906–26. Professor Emeritus.

Benjamin Shores Merigold, Ph.D. 17 Charlotte St.
Professor of Chemistry and Director of the Chemical Laboratories.

*Frank Blair Williams, Ph.D.
Professor of Mathematics.

George Hubbard Blakeslee, Ph.D., L.H.D. 21 Downing St.
Professor of History and International Relations.

†Charles Brewster Randolph, Ph.D. 10 Otsego Rd.
Professor of German.

Philip Hudson Churchman, Ph.D. 20 Institute Rd.
Professor of Romance Languages and Director of Extension Courses.

Haven Darling Brackett, Ph.D. 114 Woodland St.
Professor of Greek and Latin.

Leroy Allston Ames, A.M. 166 Woodland St.
Professor of English Literature.

Loring Holmes Dodd, Ph.D. 88 Sagamore Rd.
Professor of Rhetoric. Curator of Art.

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*Died March 7, 1933.
†Died November 7, 1933.

Robert Hutchins Goddard, Ph.D. 1 Talawanda Dr.
Professor of Physics and Director of the Physical Laboratories.

Homer Payson Little, Ph.D. 156 Woodland St.
Professor of Geology and Dean of the College.

Samuel J. Brandenburg, Ph.D. 173 Woodland St.
Professor of Economics and Sociology.

Carl Murchison, Ph.D., Sc.D. 11 Downing St.
Professor of Psychology, Director of the Psychological Laboratories and Director of the Clark University Press.

William Homer Warren, Ph.D. 166 Woodland St.
Professor of Organic Chemistry.

Walter Samuel Hunter, Ph.D. 171 Woodland St.
G. Stanley Hall Professor of Genetic Psychology.

Douglas Clay Ridgley, Ph.D. 166 Woodland St.
Professor of Geography in Education, Director of the Summer School and Director of the Home Study Department.

Clarence Fielden Jones, Ph.D. 193 Lovell St.
Professor of Economic Geography.

Walter Elmer Ekblaw, Ph.D. 207 Pleasant St., Leicester, Mass.
Professor of Geography.

Hudson Hoagland, Ph.D. 150 Woodland St.
Professor of Physiology and Director of the Biological Laboratories.

Carey Eyster Melville, A.B. 16 Isabella St.
Associate Professor of Mathematics.

Vernon Jones, Ph.D. 54 May St.
Associate Professor of Educational Psychology.

James Ackley Maxwell, Ph.D. 24 Loudon St.
Associate Professor of Economics.

Arthur Fletcher Lucas, Ph.D. 78 Downing St.
Associate Professor of Economics and Sociology.

Dwight Erwin Lee, Ph.D. 37 Clifton St.
Associate Professor of Modern European History.

Percy Martin Roope, Ph.D. 8 Virginia Rd.
Associate Professor of Physics.

Henry Donaldson Jordan, Ph.D. 20 Loudon St.
Associate Professor of English History.

Robert Stanley Illingworth, A.M., Ed.M. 209 Lovell St.
Associate Professor of English.

Samuel Van Valkenburg, Ph.D. 10 South Flagg St.
Associate Professor of Climatology and Regional Geography.

Jesse Lunt Bullock, Ph.D. 35 Downing St.
Associate Professor of Chemistry.

Heinrich Morant Bosshard, Ph.D. 22 Baker St.
Associate Professor of German.

David Potter, Ph.D. 766 Main St.
Associate Professor of Biology.

David Mitchell Dougherty, Ph.D. 9 Baker St.
Assistant Professor of Romance Languages.

Clarence Henry Graham, Ph.D. 166 Woodland St.
Assistant Professor of Psychology.

Wallace Walter Atwood, Jr., Ph.D. 88 Morningside Rd.
Assistant Professor of Physiography and Regional Geography.

Gerald Barnes, Ph.D. 60 Lovell St.
Assistant Professor of Economics and Sociology.

Ray Allen Billington, Ph.D. 38 Whitman Rd.
Instructor in History.

Charles M. Pomerat, A.B. 3 Conant Hall, Oxford St.
Instructor in Biology. Cambridge, Mass.

Richard B. Sewall, Ph.D. 144 Woodland St.
Instructor in English. Proctor, Estabrook Hall.

Reino Korpi, A.B. 18 Catherine St.
Assistant in German.

OTHER MEMBERS OF THE STAFF

Curtis F. Marbut, LL.D.
Special Lecturer in Geography.

Raymond Royce Willoughby, Ph.D. 14 Reed St.
Research Associate in Psychology.

Guy H. Burnham, A.M. — 19 Woodman Rd.
Cartographer, Graduate School of Geography.

Ernest Raymond Whitman — 48 Downing St.
Director of Physical Education.

Ralph Warner Ellis, M.D. — 574 Main St.
Medical Director.

Florence Chandler — 18 Downing St.
Bursar.

Lydia P. Colby — 276 Highland St.
Recorder.

Dean Winslow Hanscom, A.B. — Waban, Mass.
Director of the Musical Clubs.

John W. Boardman — 15 Shirley St.
Superintendent of Buildings and Grounds.

STUDENT ASSISTANTS

Biology

Morton A. Rubin, A.B.

Chemistry

Milan A. Chapin, A.M.
Guy S. Herrick, A.M.
Axel V. Holmgren, A.M.
Karl C. Whitehouse, A.M.

Economics and Sociology

Armand J. Brissette, Jr., A.M.

Geology

Stanley G. Turner

History and International Relations

Forrest R. Holdcamper, A.M.
Jesse M. Macknight, A.M.

Physics

Albert C. Erickson, A.M.

Physical Training

Howard G. Whitman

Psychology

Edward H. Kemp, A.B.

GOVERNING BOARDS AND COMMITTEES

THE UNIVERSITY FACULTY

The Faculty consists of the President, the Librarian, and all members of the staff giving regular courses of instruction. It has immediate supervision over the general educational work of the University and is responsible for the nomination to the Board of Trustees of candidates for baccalaureate degrees and for honorary degrees.

Secretary of the Faculty, Benjamin S. Merigold.

THE UNIVERSITY SENATE

An advisory board appointed by the President

President Wallace W. Atwood, *ex officio*

George H. Blakeslee
Samuel J. Brandenburg
Philip H. Churchman
Loring H. Dodd
W. Elmer Ekblaw
Walter S. Hunter
Homer P. Little
Benjamin S. Merigold
Carl Murchison

THE GRADUATE BOARD

The Graduate Board consists of the President and representatives of the departments offering advanced graduate instruction. It has general control of the work of the Graduate Division of the University and is responsible for the nomination to the Board of Trustees of candidates for the degrees of Master of Arts and of Doctor of Philosophy.

President Wallace W. Atwood, *ex officio*

George H. Blakeslee
Samuel J. Brandenburg
W. Elmer Ekblaw
Robert H. Goddard
Hudson Hoagland
Walter S. Hunter
H. Donaldson Jordan
Dwight E. Lee
James A. Maxwell
Benjamin S. Merigold
Carl Murchison
William H. Warren

Clarence F. Jones, *Secretary*

THE COLLEGE BOARD

The College Board consists of the President, the Dean of the College, and six members of the Faculty, appointed by the President. It has immediate supervision over the work of the Undergraduate Division, subject to the control of the Faculty, and recommends to the Faculty candidates for the degree of Bachelor of Arts.

President Wallace W. Atwood
College Dean Homer P. Little } *ex officio*

Jesse L. Bullock
David M. Dougherty
James A. Maxwell
David Potter
Douglas C. Ridgley
Percy M. Roope
Carey E. Melville, *Secretary*

THE COMMITTEE ON EXTENSION COURSES AND SPECIAL STUDENTS

The Committee exercises general supervision over "courses of college grade for adults" and over special students including candidates for the degree of Bachelor of Education, and recommends to the Faculty candidates for this degree.

President Wallace W. Atwood, *ex officio*
Philip H. Churchman, *Chairman*
Samuel J. Brandenburg
Vernon Jones
Homer P. Little
Douglas C. Ridgley
Carey E. Melville, *Secretary*

THE COMMITTEE ON THE SUMMER SCHOOL

President Wallace W. Atwood, *ex officio*
Director of the Summer School, Douglas C. Ridgley
George H. Blakeslee
Carey E. Melville
Samuel J. Brandenburg

THE COMMITTEE ON PERSONNEL AND ORGANIZATION

Elected annually to advise the President regarding the personnel and the organization of departments.

George H. Blakeslee
Samuel J. Brandenburg
Homer P. Little
Carey E. Melville
Hudson Hoagland

THE COMMITTEE ON COURSES IN EDUCATION

A standing committee of the Faculty on which is placed the responsibility of providing, in coöperation with the several departments, courses in Education in sufficient number and variety to enable graduates of the College to meet the current requirements of the near-by states for positions in the public school systems.

President Wallace W. Atwood, *ex officio*
Vernon Jones, *Chairman*
Philip H. Churchman
Robert S. Illingworth
Douglas C. Ridgley

THE COMMITTEE ON CURRICULUM

President Wallace W. Atwood, Dean Homer P. Little, *ex officio*
Philip H. Churchman, *Chairman*
Leroy A. Ames
Dwight E. Lee

STANDING COMMITTEES OF THE GRADUATE BOARD

THE COMMITTEE ON CREDENTIALS

The committee passes upon applications for admission to the graduate division and makes recommendations to the Graduate Board in respect to fellowships and scholarships and candidacy for graduate degrees.

President Wallace W. Atwood, *ex officio*
Clarence F. Jones, *Chairman-Secretary*
George H. Blakeslee
Samuel J. Brandenburg
Carl Murchison

THE COMMITTEE ON PROFICIENCY IN FOREIGN LANGUAGES

The committee examines candidates for the degree of Doctor of Philosophy for proficiency in foreign languages.

President Wallace W. Atwood, *ex officio*
Philip H. Churchman, Professor of Romance Languages
Heinrich M. Bosshard, Associate Professor of German
A representative of the student's major department.

STANDING COMMITTEES OF THE COLLEGE BOARD

THE COMMITTEE ON ADMISSIONS

President Wallace W. Atwood, Dean Homer P. Little, *Chairman*, *ex officio*
Samuel J. Brandenburg
Carey E. Melville
Robert S. Illingworth
Benjamin S. Merigold

THE COMMITTEE ON ATHLETICS

President Wallace W. Atwood
Dean Homer P. Little } *ex officio*

James A. Maxwell
David Potter
Ernest R. Whitman
Richard B. Sewall

THE COMMITTEE ON AUTHORIZED EXCURSIONS

President Wallace W. Atwood
Dean Homer P. Little } *ex officio*
Carey E. Melville

COMMITTEE ON STUDENT FINANCES

President Wallace W. Atwood
Dean Homer P. Little } *ex officio*
Guy H. Burnham, *Chairman*
James A. Maxwell
Ernest R. Whitman

COMMITTEE ON SOCIAL AFFAIRS

President Wallace W. Atwood
Dean Homer P. Little } *ex officio*
Jesse L. Bullock, *Chairman*
H. Donaldson Jordan
William H. Warren

COMMITTEE ON FRATERNITIES

President Wallace W. Atwood
Dean Homer P. Little } *ex officio*
Dwight E. Lee, *Chairman*
W. Elmer Ekblaw
Arthur F. Lucas

COMMITTEE ON PUBLICATIONS

President Wallace W. Atwood
Dean Homer P. Little } *ex officio*
Leroy A. Ames, *Chairman*
Heinrich M. Bosshard
Percy M. Roope

THE UNIVERSITY

THE LOCATION

Clark University is located in Worcester, Massachusetts, an industrial and educational center with a population of about two hundred thousand. It is distant about forty miles from Boston and from Providence, and about two hundred miles from New York City.

GROUNDS AND BUILDINGS

The university campus is a tract of about eight acres bounded by Main, Woodland, Maywood, and Downing Streets, about a mile and a quarter from the City Hall. Here the principal buildings are located. Besides this tract, the institution owns the athletic grounds between Maywood and Beaver Streets, where the tennis courts are located, the athletic field of about six acres at the corner of Park Avenue and Beaver Street, about five minutes' walk from the University, the land on the corner of Woodland and Charlotte Streets, where Estabrook Hall is located, the adjacent Fanning estate and other property opposite the campus on Woodland Street, the Hadwen Arboretum on Lovell Street, and several other dwellings occupied by members of the staff. The residences of the President and of the Dean of the College are on Woodland Street, opposite the campus.

ORGANIZATION

The University includes:

The Undergraduate Division offering a general college course leading to the degree of Bachelor of Arts.

The Graduate Division offering advanced instruction leading to the degrees of Master of Arts and of Doctor of Philosophy.

The Graduate School of Geography offering special training leading to higher degrees in geography.

The Summer School offering both undergraduate and graduate instruction with special reference to candidates for the degrees of Bachelor of Education and Master of Arts.

The Extension Division offering courses at the University in the late afternoon, evenings, and on Saturday, with special reference to the needs of candidates for the degree of Bachelor of Education.

The Library with its separate endowment, offering unusual opportunities for study and research.

The Clark University Press is associated with the University under the direction of a Board of Governors appointed by the Trustees of the University. It is not a service department of the University, but a self-supporting enterprise engaged in the publication of scientific books and journals.

The Departments at present offering courses of study are:

1. Ancient Languages and Literatures
2. Biology
3. Chemistry
4. Economics and Sociology
5. English Language and Literature
6. Geography
7. Geology
8. German Language and Literature
9. History and International Relations
10. Mathematics*
11. Physics
12. Psychology and Education
13. Romance Languages and Literatures

THE ACADEMIC YEAR

The academic year begins on the Tuesday before the fourth Thursday in September, and Commencement Day is the thirty-seventh Monday following (first or second Monday in June). The first semester ends on the Saturday before the nineteenth Monday, and the second semester begins on the nineteenth Monday of the academic year. There are two recesses during the college year: two weeks including Christmas and New Year's Day; and the first full week in April. University exercises are suspended also on Thanksgiving Day, Washington's Birthday, and Memorial Day.

The Summer School begins on a Monday near the first of July and continues in session for six weeks.

Students are expected to be present on the first day of each term and to continue in attendance from day to day to the end of the term.

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*Combined with the department of Physics, September 1933 until further notice.

ADMISSION

Three classes of students are admitted:

1. Undergraduates. For requirements see announcement of the Undergraduate Division.

2. Graduate students. For requirements see announcement of the Graduate Division.

3. Special students. (a) Mature persons, not candidates for a degree, who wish to take advantage of the opportunities for study afforded by the University, and who give satisfactory evidence of adequate preparation for the work which they wish to undertake. (b) Students who are candidates for the degree of Bachelor of Education. For requirements see announcement of the Bachelor of Education degree.

Requests for information and for application forms should be addressed to the OFFICE OF THE UNIVERSITY, 950 MAIN STREET, WORCESTER, MASSACHUSETTS.

REGISTRATION

The first day of the academic year and of the summer session is devoted to the registration of programs of study. Registration for the second semester is required not later than the eleventh day (Wednesday) before the beginning of the semester.

Failure to register at the time designated is penalized, in the case of undergraduates, by a charge of one dollar for each day's delay up to a maximum of five dollars.

TUITION AND FEES

TUITION

The tuition, undergraduate and graduate, is $200 per year. In addition to the tuition the University collects from each undergraduate five dollars each semester for the support of "student activities." Students carrying small programs in regular courses are charged at the rate of $20 for each "hour" weekly through the year up to a maximum of $200.00. Tuition is payable in two equal installments, due at the beginning of each semester. If the tuition is not paid within ten days after it is due the enrollment of the student lapses. A student whose enrollment has lapsed for non-payment of tuition may be re-enrolled, with permission of the proper administrative officer on payment of the overdue tuition with an additional fee of $2.

Tuition in the Summer School is $20 for a single course, $35 for two or three courses, and $45 for four courses. Tuition may be paid at any time before the opening of the Summer School, and must be paid by noon of the first Saturday of the term.

Tuition in special courses for teachers (courses of college grade for adults) is $8.00 for a course meeting one hour per week for one semester and $15 for a course meeting two hours a week for one semester.

The following regulation was adopted by the Trustees at a meeting held March 28, 1931.

"*No refund of tuition and no release of obligation to pay tuition shall be made because of failure for any reason on the part of a student to complete the work of any semester after it is begun.*"

MATRICULATION FEE

A matriculation fee of $5.00 is required of all students formally enrolled in Clark University. This is paid but once, and permits a student to return successive years, or after a period of absence, without any further charge for matriculation. This fee is paid also by students who register for the Summer School.

Students enrolled in home study courses and "auditors" are not required to matriculate.

Official statements of record are issued by the Recorder of the University for matriculated students only.

LABORATORY FEES AND DEPOSITS

Laboratory fees are charged at the rate of $5.00 each semester for undergraduate laboratory courses.

A deposit of $10 for each course, to cover breakage, is required of students taking undergraduate laboratory work in chemistry. The department notifies the Bursar at the end of the year of the total charges against the student for breakage, and any balance remaining is returned. If the deposit is not sufficient to cover the breakage charges, any excess is collected by the Bursar.

Graduate students taking undergraduate courses pay the same fees and deposits as undergraduates.

A deposit of $25 is required of each graduate student in the Department of Chemistry, at the beginning of the year. Ordinary supplies and materials are charged to the student's account at cost. Any balance remaining is refunded at the end of the year.

Laboratory fees and deposits for breakage are due at the time of registration for the courses.

PUBLICATION FEES

Publication fees, $10 for the Master of Arts thesis and $15 for the Doctor of Philosophy dissertation, are due when applications for admission to candidacy are filed.

DIPLOMA FEES

Diploma fees are charged according to the following schedule:

For the Bachelor of Arts or the Bachelor of Education diploma, $5.00. These fees are due at the beginning of the second semester of the year in which the candidate expects to receive the degree.

For the Master of Arts diploma, due when applications for admission to candidacy are filed, $10.

For the Doctor of Philosophy diploma, due when applications for admission to candidacy are filed, $25.

DINING HALL AND DORMITORY

Board at the Dining Hall is furnished at a reasonable rate which has varied from year to year. During the current year the charge is $7.50 per week, with *no refunds for absences except in cases of protracted illness.*

Undergraduates who do not live in their own homes are required to board at the Dining Hall.

Estabrook Hall, the undergraduate dormitory completed in 1924, provides accommodations for about fifty students. Two students in a suite of two rooms are charged $150 each; two in one room, $115 each except on the mezzanine floor where the two rooms available cost $135 each. Dormitory room rent is payable either in advance or one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May. Each student is required to deposit $25 before occupying a room. This deposit is returned, less a charge for lights and any charges for damages to the room or its furnishings, when the key to the room is surrendered to the Bursar.

Freshmen not living in their own homes are required to room in Estabrook Hall.

Rooms are assigned to freshmen in order of application, when the application is accompanied by the deposit of $25. Students who indicate a desire to room together will be accommodated whenever possible. Rooms not required for freshmen may be rented by upper classmen or by graduate students.

The University has dormitory accommodations in the "Faculty House" for a small number of graduate students.

OTHER EXPENSES

In addition to the fees and other charges enumerated above, students will find that the necessary expenses of living in Worcester are comparable with similar costs in any large city. The total is largely dependent upon the individual's habits and tastes.

Lodgings may be secured in private houses within convenient distance from the campus at a reasonable cost.

The cost of books varies with the programs of study. The University maintains a bookstore where textbooks and supplies may be procured.

FELLOWSHIPS, SCHOLARSHIPS AND LOANS

Fellowships, scholarships and loans or other grants for graduate students are available as stated in the announcement of the Graduate Division.

Undergraduate scholarships and loans or other grants are available as stated in the announcement of the Undergraduate Division.

HEALTH AND PHYSICAL TRAINING

The Medical Director, Doctor Ralph W. Ellis, exercises general supervision over matters of health and hygiene in the University. For undergraduates a thorough medical examination is required at the beginning and end of each year.

The Medical Director is available during the academic year for conferences and medical advice. It is intended that his services shall be primarily of a preventive nature. The University does not conduct an infirmary and does not undertake to care for cases of illness requiring medical attention or hospital accommodations, although it will co-operate in every possible way in meeting such emergencies.

The Director of Physical Education has supervision over all required physical training and other athletic activities. In the matter of intercollegiate contests he is assisted by the Committee on Athletics.

The gymnasium is located on the ground floor of Jonas G. Clark Hall. Individual steel lockers and an ample number of shower baths are provided.

THE LIBRARY

EDITH M. BAKER, *Acting Librarian*
HELEN J. ELLIOT, *Cataloguer*

Assistants

DOROTHY M. DICKINSON	EMILY C. KELLEY
MARION HENDERSON	EDITH L. SAWYER

Student Assistants

P. W. TAPPAN	J. B. REYNOLDS

The Library, under the terms of Mr. Clark's will, received one quarter of his estate for the "support and maintenance of a University Library." Thus the Library is well endowed and is able to provide amply for the needs of all departments. It contains over 146,000 bound volumes and pamphlets, and the readingroom receives about 500 journals.

Particular attention is paid to the needs of students engaged in research work. The Library already possesses a good collection of complete sets of the best scientific periodicals. It makes liberal purchases for individual needs and supplements these by drawing upon the resources of the older and larger libraries through the inter-library loan system. The number of books added each year is about 3,000 volumes.

The books in the Art Department are accessible on application to the Librarian, but, by the terms of the Founder's will, they *cannot* be taken from the building.

All regular privileges of the Library are open to all members of the University.

Tuesday and Friday mornings, each week, all books recently added to the Library are placed upon a table in the reference section, where they remain for three days. This affords the members of the University an opportunity to examine the new books in all departments before they are placed upon the shelves for circulation.

The Library is open from 8 a.m. to 10 p.m. each week day (except on legal holidays), during the regular sessions of the University and during the Summer School session.

ART DEPARTMENT

In his last will and testament the Founder of the University bequeathed

> "the sum of $100,000, as an endowment fund for the Art Department of said University, and said sum is to be held and kept sacred and intact as a principal not to be used or expended under any conditions; but the income, interest or

proceeds thereof shall be used only in putting and keeping said works of art or others given or obtained for said department in good condition and in taking care of them; and then if there is a surplus of the income of said fund, I will and direct that it be used in the purchase of additional works of art or of such matters as will add to the usefulness and efficiency of said Art Department."

Under these conditions a large room has been furnished and equipped on the upper floor of the Library Building. Upon the death of Mrs. Clark, those works of art of the Founder's collection which were deemed most suitable for this purpose were arranged and displayed in this room, together with his most valuable books, which by the conditions of the will cannot be removed from the building. A complete catalogue of these books and paintings has been published in the Publication of the Library, Vol. 2, No. 1.

The most recent addition to the collection is a portrait of Louis N. Wilson, librarian of Clark University from 1889 to 1929, librarian emeritus, 1929–, by Leopold Seyffert of New York.

The Art Department is open daily (except Sundays and holidays) from 9 a.m. to 5 p.m.

THE UNDERGRADUATE DIVISION

"CLARK COLLEGE"

When the College was established in 1902, a three-year course was adopted as the normal one for the baccalaureate degree. This innovation was due to the emphasis placed upon a three-year course in the will of the founder, based on a conviction that properly prepared students could secure in three years, under favorable conditions, a training essentially equivalent to that ordinarily obtained in a four-year college course. Increasing pressure, both for the admission of high school graduates who could not qualify for the three-year course and for a larger development of extra-curricular activities, led ultimately to the abandonment of the original plan. Beginning with the class which entered in September, 1922, a four-year course became the normal one leading to the degree of Bachelor of Arts. The opportunity to complete the course in three years is still open to well prepared and serious students, and a small number avail themselves of this opportunity.

The College has a competent faculty and is well equipped for the work which it undertakes. A general program leading to the degree of Bachelor of Arts is offered. Distinctly vocational or professional programs are not offered.

A complete statement in regard to fees and expenses will be found under the heading TUITION AND FEES.

SCHOLARSHIPS AND STUDENT AID

THE JONAS G. CLARK SCHOLARSHIPS established by the Trustees in January, 1925, provide scholarships of the value of one hundred dollars each to fifty undergraduates.* Twenty of these scholarships are reserved for applicants for admission to the freshman class who rank in the upper quarter of their graduating classes in preparatory schools, eight of them being for graduates of the High Schools of Worcester. Of the remaining thirty scholarships, ten are reserved for each of the three upper classes, for students who rank in the upper quarter of each class.

These grants are for the encouragement of high grade scholarship. In conformity with this purpose they are subject to the following conditions: (1) one-half the value of the scholarship is deducted from the term bill of the holder at the beginning of each semester, (2) a scholarship is automatically forfeited for the second semester if the holder fails to maintain a rank in the upper half of his class during the first semester.

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*Thirty additional scholarships have been offered currently to entering freshmen as a contribution by the University toward the alleviation of the existing conditions of widespread unemployment and reduced incomes.

THE SANFORD MEMORIAL SCHOLARSHIP FUND, provided by the alumni of the University pays the full tuition of some undergraduate. Included in the fund is the class gift to the University of the class of 1918.

THE LIVERMORE AND AMBULANCE SCHOLARSHIP was endowed by citizens of Worcester in honor of Charles Randall Livermore, the first Clark man to fall in battle in the World War, and of his companions in the Clark Unit of Ambulance Drivers. Fifty dollars or more is offered annually, to be awarded on the basis of academic success, character, and usefulness to the College. The scholarship is open to students who are residents of Worcester County.

THE HENRY A. WILLIS FUND provides scholarships for students from Fitchburg, Massachusetts, and vicinity. In the absence of suitable candidates from this community grants may be made to others.

THE B'NAI BRITH SCHOLARSHIP, provided by the Order of B'nai Brith, is primarily but not exclusively for the aid of Jewish students.

THE CLARK UNIVERSITY FACULTY WOMEN'S CLUB offers a $100 scholarship to an applicant who ranks high in intellectual and personal qualities. The club is assisted by alumnae and wives of alumni. Application should be addressed to The Chairman, Scholarship Committee, Clark University Faculty Women's Club.

Applications for undergraduate scholarships should be filed at an early date on blanks which may be secured at the general office. Awards are made by the College Board.

The Board expressly reserves the right to award fewer than the full number of scholarships in any year if for any reason this may seem advisable.

Aid given in the form of scholarships is not regarded as a loan. It is recognized, however, that those who receive such aid may wish to return the amount in later years. *Any sums received from this source will be added to the* ALUMNI LOAN FUND *of the College.*

LOAN FUNDS

THE ALUMNI LOAN FUND is a permanent revolving fund established by the Trustees and the Alumni. To this has been added a fund of about $500 contributed by L. Kelly Foster, C. B. L. Kelley, Isadore Lubin, H. M. Smith, and others.

The Estabrook Loan Fund was created by the generosity of the late Arthur F. Estabrook of the Board of Trustees.

Loans from these funds are made to undergraduates by the Dean of the College in coöperation with the Alumni Committee on Loans. Loans are covered by endorsed notes payable at a fixed date and bear interest at the rate of 6 per cent per year.

The Sarah M. Thurber Loan Fund was established through the generosity of Dr. Charles H. Thurber, President of the Board of Trustees, as a memorial to his mother. The fund is administered by the President of the University. Such loans bear interest at the rate of 6 per cent per year.

ADMISSION

Inquiries regarding admission and requests for blank forms should be addressed to the Dean of the College. Application for admission should preferably be made by March 1. *No application received after August 1 can be promised consideration.*

Every admission is an "admission on trial" to the actual work at the College. The University reserves the right to require the withdrawal at any time of any student whose record in either conduct or scholarship fails to meet the expectations implied by his admission.

Application blanks, as well as official transcripts of preparatory school records and certificates of character should be sent directly to the College by the school officials who sign them.

Special students are not admitted to the College. They may be admitted to the University on the recommendation of a department and under the supervision of the Committee on Extension Courses and Special Students.

ADMISSION TO THE FRESHMAN CLASS

Satisfactory references as to character and the completion of a four-year high school course or its equivalent, including fifteen units of credit in acceptable subjects, are required for admission to the freshman class.

The term "unit" is understood to mean approximately one-quarter of a pupil's normal program of work for the school year.

The "fifteen units of credit in acceptable subjects" must include the "required subjects," 5 units; not less than seven units from the "restricted electives"; and not more than three units from "free electives."

A normal preparatory program will include:

- Required subjects, 5 units
  - English, 3 units (4 years)
  - Mathematics, 2 units (Algebra and Geometry)
- Restricted electives, 7 or more units (see note 1) chosen from
  - Foreign language, 2, 3 or 4 units (see note 2)
  - Social sciences, 2 or 3 units (see note 3)
  - Natural sciences, 2 or 3 units (see note 4)
  - Mathematics, 1 or 2 units (in addition to required units)
- Free electives, not more than 3 units, at the discretion of the committee on admissions, in "commercial subjects" or other subjects recognized by the preparatory school in its regular program leading to graduation.

NOTE 1. Each of the first three groups of subjects under "restricted electives" must be continued in college. Any deficiency in the number of units presented for admission involves an increased requirement in college in the corresponding group of subjects.

NOTE 2. The college does not recognize less than 2 units in any foreign language.

NOTE 3. History, Government, Civics, Economics, etc.

NOTE 4. Physics, Chemistry, Biology, etc.

An applicant for admission to the freshman class should supply, on blanks furnished by the college:

1. A signed application for admission which should be forwarded by the principal of the school in which the applicant has prepared for college, after the "Personality Rating Scale" has been completed by a responsible officer of the school. This application should be filed with the Dean at the earliest practicable date.
2. A complete statement of his preparatory school record. This should be mailed to the Dean by an officer of the school. (See statement below in regard to certification.)
3. Records of any entrance examinations which he may have taken and of any action by any other college in respect to admission.

"CERTIFICATES"

Applicants whose references are satisfactory and who are "certified" in fifteen acceptable units from approved schools will be admitted without conditions.

"Certification" for less than fifteen units may be accepted; (a) for *admission with conditions* (see below) if at least thirteen units are "certified" and the remainder of the required fifteen units are "passed"; (b) for admission, with or without conditions, if supplemented by a satisfactory record in College Board examinations in subjects not certified.

Certificates are accepted from schools on the list of the New England College Entrance Certificate Board. Schools located in New England but not on this list may apply for "specimen" certification privileges to the Secretary of the Board, Dean Frank W. Nicolson, Wesleyan University, Middletown, Connecticut.

A certificate from a school, not on the list approved by the Board, can be considered only when the school lies outside of the jurisdiction of the Board. In such cases "certification" will be interpreted, in the spirit of the regulations of the Board, to imply that the school is willing to be judged in respect to continued "certification" privilege, on the basis of the students' college records in "certified" subjects.

ENTRANCE EXAMINATIONS

Applicants who cannot present at least thirteen "certified" units should arrange in consultation with the Dean of the College to take "College Board" examinations in June. Information concerning these examinations may be obtained from school officers or by addressing the College Entrance Examination Board at 431 West 117th St., New York City. Applications for examinations must be received by the Board before the end of May.

Those who make a satisfactory record in designated examinations may be admitted to the College with or without conditions. The College will determine in each case what constitutes a satisfactory record in the examinations.

A final opportunity to qualify for admission by examination is offered at the College immediately before the opening of the academic year in September. These examinations are provided by the College Entrance Examination Board, and are intended to supplement those held in June. Admission to these examinations is by special permission in each case. A fee of $5.00 is charged by the College for a single examination, with an additional fee of $3.00 for each additional subject.

ADMISSION WITH CONDITIONS

Applicants who present fifteen "passed" units in acceptable subjects but who are not "certified" in one or, at most, two units, may be admitted with one or with two conditions respectively. Applicants whose shortage in "certified" units is more than two have an opportunity to qualify for admission, with or without conditions, by satisfactory records in "College Board" examinations.

Conditions may be in specified subjects, or may be general, in the latter case indicating some deficiency in the high school course as a whole. All conditions are terminated at the beginning of the sophomore year either by removal in the manner specified below or by additions to the requirements for graduation.

Conditions are removed if at the end of the freshman year the conditioned student has met the normal scholarship requirements for regular standing, namely a rank above the lowest quarter of the class in three-fifths of his courses and no failures. Conditions may also be removed by satisfactory records in "College Board" examinations covering the conditioned subjects in June or September following the freshman year.

Applications for examinations in September, for the removal of conditions, should be filed with the Recorder not later than the first of July preceding the date of the examinations. The fee for examination must be paid when applications are filed.

*Each condition not removed at the beginning of the sophomore year will be replaced by an additional requirement for graduation amounting to three semester hours.**

ADMISSION TO ADVANCED STANDING

A student who wishes to enter the College after having been enrolled in another institution of college grade is required to submit a letter of honorable dismissal, a complete transcript of his record at the institution last attended and such other information as the Committee on Admissions may request. If he is admitted he will be provisionally assigned to the freshman, sophomore, junior, or senior class and will be permitted to register for a suitable program. He will not be given a final class rating until he has been in residence for at least one semester. After satisfying this requirement he will be given conditional credit for the work done elsewhere to an amount determined by vote of the College Board, on the recommendation of the Recorder and the departments concerned.

The Bachelor's degree will not be conferred upon a student who has not spent at least a year in residence at Clark University, and usually not unless the period of residence includes the two semesters immediately preceding the granting of the degree.

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*See footnote, p. 32.

FACULTY ADVISERS

When a student is admitted to the College he is assigned to a member of the faculty who will act as his adviser. The adviser will assist the student in making up his program of studies for registration and will be ready at all times to afford him help and counsel, either in regard to problems of college life or other matters. The student should consult with his adviser as soon as possible after the opening of the college year in order to outline his program of studies.

REGISTRATION

Registration days are the first day of the academic year and the week preceding the examination period at the end of the first semester. Failure to register on or before these days involves a charge of $1.00 for each day's delay up to a maximum of $5.00.

A student's record of attendance begins with the first day of the semester. No credit for attendance is given until registration is completed. In cases of delayed registration unexcused absences are recorded for all scheduled meetings of courses unless excuses acceptable to the College Board are presented.

During the first week of any semester changes of courses may be made for sufficient reason with the written approval of the student's adviser and the instructors concerned. After the first week of any semester no changes may be made except such as are authorized by special vote of the Faculty or of the College Board.

Freshmen may register for programs of either five or six courses in the first semester. In subsequent semesters programs of eighteen or more hours* per week are restricted to students whose average rank in all courses for the preceding semester is 50th among 100, or better, except in the case of seniors. A senior whose graduation at the end of the year depends upon the completion of a program of six courses may register for such a program in either semester if his average rank for the preceding semester is 75th among 100, or better.

The election of a *major* and *minor* is required as a part of registration at the beginning of a student's second year in college. This election when once recorded may be changed only with the approval of the Dean. Although the *major* and *minor* are not officially regarded as fixed until the student's second year in college, he should plan his course as definitely as possible from the beginning with his probable choice in view.

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*See footnote, p. 32.

STUDENT PROGRAMS

The curriculum permits considerable freedom of adjustment to individual differences of interest. Each student's program of studies contains two principal subjects (a *major* and a *minor*) together with required courses in English, fine arts, and certain subjects chosen in accordance with rules intended to insure a reasonable distribution of work among the various departments. A large part of each program is made up of courses chosen without restriction.

Regular students normally carry programs of five courses in addition to the required work in physical training. In general it is expected that a course meeting three times weekly will require two hours of preparation for each lecture or recitation. Laboratory periods are usually three hours in length.

A student carrying the regular program should expect his college work to require from forty-five to fifty hours of his time per week, in addition to the work in physical training.

Candidates for the bachelor's degree in less than four years will generally carry programs of six courses and should expect to spend practically their entire time on their college work.

The subjects in which instruction is offered are grouped in three divisions:

DIVISION A

Biology, Chemistry, Geology, Mathematics, Physics, Experimental Psychology and Meteorology.

DIVISION B

Economics and Sociology, Geography, History and International Relations, Psychology.

DIVISION C

Ancient Languages, English, German, Romance Languages.

Each student elects a department in which he will complete a *major*, and a related department in which he will complete a *minor*. The choice of *major* and *minor* usually involves certain specific requirements in other subjects. For these and for statements as to what particular courses may be used for a *major* and a *minor* the announcements of the different departments should be consulted.

First year students must make up their programs entirely from courses designated as "Open to Freshmen."

The program for the freshmen year must include:

1. English 11.
2. A course in Foreign Language.
3. A course in Division A.
4. A course in Division B.
5. An elective. (Mathematics 10 or 11 for students intending to major in Division A.)

Second year students should, as a rule, complete the requirement in English, continue work in Foreign Language, and complete the requirements f and g listed under 3 below. A course in appreciation of the fine arts is a requirement for second year students unless they have completed this course with a satisfactory record in the first year. *Any first year requirements which have not been completed must be included in the program of courses for the second year.*

Undergraduates, other than freshmen, may enter any course listed "primarily for undergraduates," for which, in the judgment of the instructor in charge, they are prepared. Seniors and juniors who have completed the published prerequisites are admitted, at the discretion of the instructor in charge, to courses listed "for graduate students and advanced undergraduates." Undergraduates are not admitted to courses "primarily for graduate students" except in rare cases, and then only by special vote of the College Board and the approval of the Secretary of the Graduate Board.

Regular gymnasium exercise is required of all students (with certain exceptions) for the general promotion of their health and mental efficiency. This work is scheduled at times which avoid conflict with recitation hours.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS*

Students who satisfy all of the following requirements will be recommended for the degree of Bachelor of Arts unless in the judgment of the College Board there is cause for withholding this recommendation.

1. Not less than three academic years of college study in residence. At least one full year and usually the last year before the degree is conferred must be spent at Clark University.

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*Beginning September 1934, all college regulations involving a quantitative statement of "credit" will be expressed in terms of "courses" instead of "semester hours." For this purpose *six semester hours* will be interpreted as *one course.*

2. One hundred and twenty semester hours of credit (in addition to the required work in physical training) with satisfactory scholarship standing.

3. The following requirements in specified subjects and fields of study.

a. A *major* of not less than twenty-four semester hours.*

b. A *minor* of not less than eighteen semester hours.*

c. A requirement depending on the choice of the *major* subject, six semester hours.*

With a major in Division A, the requirement is Mathematics 10 or 11.

With a major in Division B, the requirement is either Greek, Latin, mathematics or a third year college course in a modern foreign language, subject to the approval of the department in which the *major* lies.

With a major in Division C, the requirement is Greek or Latin. This requirement is waived if two units of Greek or Latin have been presented for admission.

Work taken in fulfillment of this requirement (c) may also be counted toward the fulfillment of requirement (e) or (f).

d. *English*, twelve semester hours,* including English 11 required in the first year, and six semester hours* additional required before the end of the third year.

"*Fine Arts*" and "*Public Speaking*" *are not accepted in fulfillment of this requirement.*

e. *Foreign Language*, not more than thirty semester hours* nor less than six semester hours,* depending upon the amount of foreign language accepted for admission.

Each student must complete, *in college*, six semester hours* in one foreign language at a level not lower than the second year college course in that language.

Each student must complete, either in preparatory school or in college, the equivalent of thirty semester hours,* including a course at the third year college level in some one language. No allowance is made for less than six semester hours* in any one language.

In calculating equivalents under this requirement, the first two units of preparatory work in one language are accepted as the equivalent of six semester hours* of college work and each additional unit in the same language is accepted as the equivalent of six semester hours.*

f. *Division A*, twelve semester hours* for students whose admission record included two or three units in the natural sciences.

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*See footnote, p. 32.

For students admitted with less than two units this requirement is eighteen semester hours.* For students admitted with four or more such units the requirement is reduced to six semester hours.*

This requirement, if more than six hours,* must be divided between at least two departments, and six semester hours* must be a laboratory course in biology, chemistry, geology, or physics.

Courses in the history of various sciences may not be used in fulfillment of this requirement.

g. *Division B*, twelve semester hours* for students whose admission record included two or three units of history or related subjects. For students admitted with less than two units in this field, the requirement is eighteen semester hours.* For students admitted with four or more units in this field, the requirement is reduced to six semester hours.*

This requirement, if more than six hours,* must be divided between at least two departments with not less than six semester hours* in some one department.

h. *Appreciation of the Fine Arts*, a semester course, required before the end of the second year.

4. *Physical Training*, three hours per week throughout three years. Any student may be excused from this requirement for adequate reasons.

GRADING AND SCHOLARSHIP

A student's scholarship record is determined by his relative standing (rank) in each of his courses, among those who "pass."

College regulations concerning scholarship are based on the assumption that in any large class the major portion will do fairly satisfactory work and that the remainder will be about equally divided between those who clearly rank above and those who as clearly rank below the group just mentioned.

It is not assumed that every high rank implies excellent scholarship or that every low rank implies unsatisfactory scholarship, but it is taken as axiomatic that a high average rank indicates relative excellence, and that a low average rank indicates a relatively unsatisfactory record.

In recognition of the superior quality of work necessary to insure a high rank, additional credit is given to students who are ranked in the upper quarter in any three-hour course. This extra credit in each semester amounts to 0.5 hour* for ranks from 1 to 5, on the basis of a class of 100 students, 0.3 hour* for ranks from 6 to 15 and 0.2 hour* for ranks from 16 to 25.

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*See footnote, p. 32.

Courses in which a student is ranked in the lowest quarter of the class are counted toward the degree of Bachelor of Arts only when combined with courses in which the rank is higher, in the proportion of two hours* of credit in the lowest quarter of any class to three hours* of credit ranked *above* the lowest quarter in any course.

For the present, reports to students are made in terms of grades defined as follows: A, distinguished; B, superior; C, acceptable; D, unsatisfactory; F, failed. These grades are further defined by the expectation that in the long run, of the passing grades, not more than 5% will be A, not more than 25%, A and B combined, approximately 50%, C, and approximately 25% D.

CLASSIFICATION OF STUDENTS

Students are classified as freshmen, sophomores, juniors and seniors, on the following basis:

A student who, at the beginning of any academic year, has credit of less than 15 semester hours,* is classified as a *freshman* for that year.

A student, who, at the beginning of any academic year, has credit of 15 hours* or more, but less than 48 hours,* is classified as a *sophomore* for that year.

A student, who, at the beginning of any academic year, has credit of 48 hours* or more, but less than 84 hours,* is classified as a *junior* for that year.

A student, who, at the beginning of any academic year, has credit of 84 hours* or more, is classified as a *senior* for that year.

A student who has announced his intention of becoming a candidate for the degree of Bachelor of Arts in three years and who, at the beginning of his third year has completed eighty semester hours* or more, is classified as a *senior* for that year.

Any student, who, at the beginning of the second semester, is clearly in a position to complete the requirements for the degree before the beginning of the next academic year, is classified as a *senior* for the second semester.

HONORS

First honors and *second honors* are awarded annually to those members of each class who have, in the judgment of the College Board, distinguished themselves by their scholarship during the year.

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*See footnote, p. 32.

The bachelor's degree is awarded *with honor*, *with high honor*, and *with highest honor* to those members of each graduating class who have made the most creditable records.

The Clark Scholarship Society was organized in 1914. This society is similar in aims to the Society of Phi Beta Kappa. Its object is, "to maintain a high and broad conception of scholarship; to encourage devotion to scholarship, so conceived; to promote a close relation for mutual benefit between the undergraduate members and the faculty members of the Society." Membership in the Society is open to members of the faculty. New student members are normally elected at the end of each year from among the men of high standing in the junior class. Nominations are made by the College Board and the undergraduate members of the Society elect from the men so nominated. Additional nominations are made at the middle and end of the senior year.

ELIGIBILITY FOR EXTRA-CURRICULAR ACTIVITIES

Participation in extra-curricular activities is denied only to those students whose scholarship records indicate that further encroachment upon their time and attention may interfere with the completion of their course of study.

A student is "ineligible" for the following half semester if at any report period,

(a) he fails more than one course.
(b) he fails one course and does not secure ranks above the lowest quarter of the class in two courses.
(c) he passes all courses, and does not secure a rank above the lowest quarter of the class in at least one course.

Students carrying less than a full program of studies are ineligible, except in the case of seniors whose programs are adequate to insure their graduation at the end of the academic year.

Students admitted with advanced standing from another college are "ineligible" for the first half-semester of residence at Clark University, and special students are "ineligible."

STUDENT LIFE

It has always been the policy of the University to give to its students the greatest possible individual liberty of action and to adopt few rules of conduct.

It is assumed that each student will conform to the recognized standards of morality, good order, and gentlemanly conduct, that he will not absent himself unnecessarily from university exercises at which he is due, and that he will give his serious and constant attention to his work as a student.

Undergraduate organizations are under such control as will insure proper caution and recognition of responsibility in business dealings.

The general supervision of intercollegiate athletics is committed to an Athletic Board consisting of the Director of Physical Training, the Committee on Athletics of the College Board, two alumni elected by the Alumni Association, and nine student members. The actions of this Athletic Board are subject to review and veto by the Committee on Athletics.

The non-athletic activities are supervised by the Student-Faculty Council.

Opportunity for relaxation and the meeting of students and faculty on a basis of general sociability is provided by the various clubs in which both students and faculty participate.

Student activities include a Glee Club and Orchestra which give a series of concerts in Worcester and elsewhere during the winter; a Debating Society whose members have made an enviable record for the University in intercollegiate debates; the Gryphon, a senior honor society, and other organizations.

The Clark University Players is an active student organization which presents a number of plays each year under the direction of the Department of English.

The Clark Quarterly, a review of college life and letters, and *The Clark News*, a weekly undergraduate publication, and the *Pasticcio*, the college annual, are published by the students.

THE GRADUATE DIVISION

GENERAL INFORMATION

Admission to the Graduate Division is open to properly qualified persons, both men and women.

Instruction and opportunities for original research leading to the degrees of Master of Arts and Doctor of Philosophy are offered by the following departments:

- *Biology
- Chemistry
- Economics and Sociology
- Geography
- History and International Relations
- Physics
- Psychology

Other departments offer courses of an advanced nature which, with the consent of the Graduate Board, may be included in the programs of graduate students, but are not prepared at present to offer complete programs leading to the higher degrees.

A complete statement regarding tuition and expenses will be found under the heading "Tuition and Fees."

SCHOLARSHIPS AND FELLOWSHIPS

The University awards annually a number of scholarships yielding tuition and in some cases an additional stipend of not more than $200, and fellowships yielding tuition and additional stipends up to a value of $400. These stipends are provided from the income of the George F. Hoar Fund, the gift of Andrew Carnegie, and from other sources.

STUDENT AID

Student aid is available from the following funds, with the restrictions noted.

A Citizen's Fund, the income of which is to be used for the aid of "some one or more worthy native born citizens of the City of Worcester who may desire to avail themselves of the advantages of the institution." The benefits of this fund are available to graduate students only.

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*In the department of Biology programs leading to the doctorate are limited to the field of Physiology.

The John White Field Fund, the income of which is "to provide for the minor needs of a scholar or fellow," has been established by Mrs. Eliza W. Field. The fund amounts to five hundred dollars.

The Eliza D. Dodge Fund is a sum of one thousand dollars, the income only of which is to be expended to aid graduate students of limited means engaged in research work.

LOAN FUNDS

The Sarah M. Thurber Fund. This fund has been established through the generosity of Dr. Charles H. Thurber, President of the Board of Trustees, as a memorial to his mother. The fund is administered by the President of the University. Loans from this fund bear interest at the rate of 6 per cent per annum.

Alumni Loan Funds. Loans from these funds are available on suitably endorsed notes. Applications require the approval of the student's major department, the Committee on Credentials of the Graduate Board, and the chairman of the Alumni Loan Fund Committee.

LIBRARY FACILITIES

In addition to the Library facilities provided by the University students may avail themselves of the privileges of several other excellent libraries in the city. The Worcester Public Library contains some 237,000 volumes and makes accessible to the public about 600 newspapers and magazines. The library of the American Antiquarian Society, housed in the national headquarters of the society in Worcester, contains about 136,000 volumes and some 202,000 pamphlets. The library of the Worcester District Medical Society is also at the disposal of members of the University.

ADMISSION TO THE GRADUATE SCHOOL

Eligibility. Admission is granted only by the Graduate Board on recommendation of a department. A graduate of more than average ability from a college or university which was on the approved list of the Association of American Universities at the time his bachelor's degree was obtained is eligible for admission as a *regular graduate student*. A graduate of superior attainments from a four-year college not on the list, is normally eligible for admission only as a *special graduate student* for a specified period, not exceeding one academic year. A special graduate student may be admitted by the Graduate Board to regular graduate standing after a semester, or its equivalent, of study in residence and upon the recommendation of his major department.

Application. A prospective applicant should communicate with the department in which he expects to do his major work. If he is encouraged to make application by the department, he will receive the application blanks for admission and scholarship or fellowship and should submit them to the Chairman of the department with an official transcript of undergraduate and graduate work, two letters of recommendation from persons in a position to speak frankly of his qualifications, and a recent photograph (passport size preferred). Any other pertinent information, including published or unpublished theses or other writings, may accompany the application. For most favorable consideration, applications for appointments for the succeeding year should be in the hands of the Chairman of the respective department by March 1st.

Admission. In granting admission, the Graduate Board may, with the advice of the department, prescribe a minimum period of residence never less than one year, and other definite requirements, including courses in particular subjects, as prerequisites for a graduate degree. Admission to the Graduate School does not in any way imply admission to candidacy for a degree. Admission to the Graduate School is granted for entry only at the specified time, and lapses if the student fails to enter at that time. If, after an applicant has entered as a regular student, his period of graduate study is broken by more than a year, he must make formal application for re-instatement.

Undergraduates and non-graduate special students in graduate courses. Admission of other than regular or special graduate students to a course "Primarily for Graduate Students" may be authorized by the Secretary of the Graduate Board on formal recommendation in each case by the department in which the course is offered.

SCHOLARSHIPS AND FELLOWSHIPS

GENERAL REGULATIONS

1. Scholarships and fellowships (except honorary appointments) are for prospective candidates for the degrees of Master of Arts and Doctor of Philosophy in this University.

2. All applications for fellowships and scholarships shall be presented to the Chairman of the Credentials Committee accompanied by an official transcript of record, letters of recommendation, a photograph, and endorsed with the department's recommendation.

Applications when complete and properly endorsed will be considered by the Committee on Credentials for recommendation to the Graduate Board. According to an agreement of the Association of American Universities, the elections of fellows and scholars will be communicated on April 1st, but not before, to each member of the Association of American Universities and to each successful candidate.

3. An appointment will become effective when an acceptance in writing is filed with the Secretary of the Graduate Board within fifteen days of the date of notification.

4. Scholarships or fellowships are not transferable from one department to another except with the approval of the Graduate Board.

5. A scholar or fellow may not engage during the term of appointment in any occupation that may interfere with his duties as a full-time graduate student unless he obtains permission from the Graduate Board to do so.

SCHOLARSHIPS

Scholarships may be awarded to students of high rank who may be expected to fulfill the requirements for the master's degree in the normal time. These scholarships are valued at from $100 to $400 including tuition.

FELLOWSHIPS

Fellowships valued at $200 to $400, which are equivalent to tuition alone or to tuition and an additional stipend up to $200, may be awarded to competent, full-time, regular graduate students who have completed an amount of graduate work equivalent to the requirements for the M.A. degree. Fellowships valued at $200 to $500, equivalent to tuition alone or to tuition and an additional stipend up to $300, may be awarded to competent graduate students who give promise of completing their work for the degree of Doctor of Philosophy by the end of the academic year for which the appointments are made.

Some of these fellowships will be designated as *research fellowships or teaching fellowships*, with the consent of the applicant and on the recommendation of the department, in cases where research or teaching assistance in the department is to be a duty of the fellow. Where the research or teaching duties in such fellowship or in an assistantship would prevent a scholar or fellow from carrying a full program of studies during the academic year, he may nevertheless qualify for full-time credit for the year through an adequate summer program of research or reading directed by the major department and approved by the Graduate Board.

HONORARY FELLOWSHIPS

Distinguished visitors may be appointed Honorary Fellows for specified periods at the discretion of the Graduate Board. Such appointments entitle their holders to all university privileges and carry freedom from tuition charges.

RULES AND REGULATIONS

LANGUAGE REQUIREMENTS

Requirement in English. A student who wishes to become a candidate for a higher degree during his first year of residence may be required to come before the Committee on Language Examinations before admission to candidacy, for a test of the adequacy of his knowledge of English in respect to speaking, reading and writing.

A candidate for a graduate degree after more than one year of graduate study must satisfy his major department in respect to his knowledge of English.

Foreign Languages. A prospective candidate for the degree of Doctor of Philosophy is advised to prepare himself early for the oral examinations in reading modern languages. French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these. A student must take these examinations not later than February first of his first year of residence at Clark beyond the master's degree. When he is ready for either or both he is to notify the Recorder, who will arrange for the examination to be held within two weeks if possible. These examinations are conducted by a committee composed of a representative of one of the modern language departments, and a representative of the student's major department. The committee shall report the results of the examination to the Recorder. Additional language requirements may be imposed by the student's major department.

RESIDENCE

A regular academic year of full-time study or its specified equivalent in residence at Clark University is a prerequisite for any degree. Only the following is recognized as equivalent to a regular academic year: one full semester of the regular academic year and the equivalent of 18 other weeks on a full-time program of graduate work approved by the major department may be accepted as meeting the residence requirements for the degree of Master of Arts. Residence work is broadly defined as regular work at Clark University done under the immediate personal supervision of at least one member of the university faculty. A field trip led by a member of the university faculty who is regularly engaged in graduate instruction is considered as providing an opportunity for work in residence to a maximum extent of nine weeks.

THE DEGREE OF MASTER OF ARTS

Admission to Candidacy. Regular students who have been admitted to the Graduate School without condition, or others who have met any special requirements imposed by the Graduate Board, may, when they have demonstrated their ability to do satisfactory work, be accepted by the Graduate Board as candidates for the degree of Master of Arts. An application for admission to candidacy for the master's degree will be considered by the Graduate Board when the student has:

1. Completed one semester of full-time graduate work or its equivalent in residence at this university;
2. Paid the diploma fee ($10) and publication fee ($10), and
3. Obtained the written endorsement of his major department.

Applications should be filed with the Secretary of the Graduate Board not later than the first week of the last full semester which the student expects to spend in residence as a candidate for the degree. Unless extended by action of the Graduate Board, candidacy for the degree of Master of Arts lapses at the end of three years. When candidacy expires without the degree having been awarded the diploma and publication fees, less any expenses incurred, will be returned.

Course requirements. In order to insure that the student may obtain the necessary training, he must meet a minimum course requirement of 18 semester hours in addition to his research work. The subject-distribution of the courses of each candidate must have the approval of the candidate's major department. A candidate for the master's degree who is definitely preparing to teach in secondary schools, may, with the approval of his major department, elect one or two semester courses in education which will count toward the fulfillment of this course requirement.

Examinations. The candidate must make a satisfactory record in such written examinations as may be required by the major department, and in a final oral examination of approximately one hour's duration by a committee of three or more, two of whom shall be members of the Graduate Board. The major department shall make a written report to the university Recorder, not later than 9 a. m. of the Friday preceding Commencement, stating the ground on which the candidate is recommended for the degree.

Thesis. The candidate must demonstrate that he has a comprehensive knowledge of his field of study and is capable of carrying on, under direction, a satisfactory investigation in that field. He must submit to his major department, by May 15 of the year in which the degree is to be conferred, a thesis on an approved topic and an abstract thereof. The thesis shall be in a prescribed form on prescribed thesis paper (to be obtained from the Bursar) and shall have a printed title page (to be obtained from the Recorder) that bears the following statement:

> "A thesis submitted to the Faculty of Clark University, Worcester, Massachusetts, in partial fulfillment of the requirements for the degree of Master of Arts in the Department of————and accepted on the recommendation of
> (Name of Chief Instructor)."

The title page shall be followed by a page (to be obtained from the Recorder) giving the academic history of the candidate.

The abstract should not exceed 600 words in length and should bear the written statement,

> "Abstract approved for publication
> (Name of Chief Instructor)."

The thesis and two copies of the abstract, bearing the signature of the chief instructor, shall be delivered to the university Recorder not later than 9 a. m. of the Friday preceding Commencement.

Additional copies of the thesis or abstract may be required by the major department.

THE DEGREE OF DOCTOR OF PHILOSOPHY

Course of Study. Only such candidates as give evidence of general proficiency, power of investigation and high attainments in the special field in which their major subjects lie will be encouraged to proceed to the degree of Doctor of Philosophy.

A graduate student who expects to proceed to the doctor's degree shall select a major subject of study, and at least one minor subject with the approval of the department in which the major subject lies.

Admission to Candidacy. Applications for admission to candidacy must be filed not later than November first, in any academic year, by students who hope to receive the degree at the end of that academic year.

An application for admission to candidacy for the degree of Doctor of Philosophy will be considered by the Graduate Board when the applicant has:

1. Completed two full academic years of graduate work or its equivalent;
2. Passed examinations in at least two foreign languages. French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these;
3. Passed a preliminary examination in his major and minor fields of study;
4. Paid the diploma and publication fees ($25 and $15);
5. Filed with his major department an application for admission to candidacy, stating the subject of his dissertation, and
6. Obtained the endorsement of the application from his major department.

Admission to candidacy for the degree of Doctor of Philosophy shall hold good only for three years from the date of the vote granting admission to candidacy. When candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, will be returned.

Dissertation. For the degree of Doctor of Philosophy an indispensable requirement is a dissertation upon an approved subject, to which it must be an original contribution of value.

Not later than May 1, the dissertation, with an abstract not exceeding 1,200 words in length, must be presented to the instructor under whose direction it is written. The dissertation shall be in a prescribed form on prescribed thesis paper (to be obtained from the Bursar) and shall have a printed title page (to be obtained from the Recorder) that bears the following statement:

> "A dissertation submitted to the Faculty of Clark University, Worcester, Massachusetts, in partial fulfillment of the requirements for the degree of Doctor of Philosophy in the Department of———and accepted on the recommendation of
> (Name of Chief Instructor)."

The title page shall be followed by a page (to be obtained from the Recorder) giving the academic history of the candidate.

The abstract should bear the written statement,

"Abstract approved for publication

(Name of Chief Instructor)."

The dissertation and abstract must be accepted by the chief instructor before the final examination may be held. In every case the dissertation shall be laid before the examining committee at the time of examination, with the comments of the chief instructor and other readers.

The complete copy and two copies of the abstract of the dissertation, bearing the signature of the chief instructor, shall be delivered by the department to the university Recorder not later than 9 a. m. of the Friday preceding Commencement. The dissertation and one copy of the abstract will be deposited by the Recorder in the Library, where they shall remain permanently, not subject to withdrawal.

A second copy of the dissertation, accompanied by a copy of the abstract shall be delivered to the department or the library for loan purposes.

If and when a dissertation is published, five of the printed copies should be presented to the Clark University Library; four copies to be retained by the Library and the other to be presented to the Library of Congress for its annual list of American doctoral dissertations printed.

At the final examination the student will be expected to defend his dissertation and, at the discretion of the examining committee, he may be questioned over the entire field of his study. The final examination will be at least a two-hour oral examination. Additional written examinations may be given at the discretion of the department concerned. The oral examination will be held by a committee of at least four members, including the chairman or his duly appointed representative and one other representative of the department in which the candidate has done his major work, one or more representatives of the department or departments in which the candidate has elected his minor subjects, a member of the Graduate Board under whom the candidate has done no work, and such other members of the Graduate Board as care to attend.

The President of the University is authorized to invite any person from within or without the University to be present and to assist in the examination. The committee shall in each case appoint a clerk who shall report the results of the examination to the university Recorder.

Each department shall render to the university Recorder final reports in writing on all candidates for the degree of Doctor of Philosophy not later than 9 a. m. of the Friday preceding Commencement.

THE GRADUATE SCHOOL OF GEOGRAPHY

STAFF

Wallace W. Atwood, Ph.D., Professor of Physical and Regional Geography and Director of the Graduate School of Geography.

Douglas C. Ridgley, Ph.D., Professor of Geography in Education, Director of Home Study and of the Summer School.

Clarence F. Jones, Ph.D., Professor of Economic Geography.

W. Elmer Ekblaw, Ph.D., Professor of Geography, Assistant Editor, *Economic Geography*.

Samuel Van Valkenburg, Ph.D., Associate Professor of Climatology and Regional Geography.

Wallace W. Atwood, Jr., Ph.D., Assistant Professor of Physiography and Regional Geography.

Curtis F. Marbut, Ph.D., Special Lecturer on Soils.

Guy H. Burnham, A.M., Cartographer.

GENERAL STATEMENT

The Graduate School of Geography gives opportunity to properly qualified students to secure advanced training in Geography. The staff is composed of specialists in the various fields of Geography. They must of necessity spend a portion of their time in travel and in field studies, but while in residence, they offer regular courses of instruction and direct advanced students in research work. It is not the intention to offer all courses of instruction each year; many of them are given once in two years. Abundant opportunities for instruction are provided, but graduate students are advised not to burden themselves by attending too many lecture courses. They must depend very largely for their growth upon their individual efforts in research, under the direction of members of the staff. The map collection and the Libraries offer them unusual facilities for research work in residence, but it is hoped that all graduate students, before completing their university work, may undertake field studies.

The publication of *Economic Geography*, issued quarterly, was begun in 1925.

In the Summer School each year many members of the geography staff offer both elementary and advanced courses. These are acceptable for preparation for graduate work and for meeting the requirements for the degree of Master of Arts.

GEOGRAPHY COURSES FOR COLLEGE STUDENTS

Undergraduates planning to go on into graduate work in Geography are urged to consult the Geography Staff early in their undergraduate course, so that suitable programs may be mapped out including essential courses in related fields. A *major* in Geography should in general begin with Geography 10 in the first year and should include Geography 12 in the second or third year of the course. An attempt should be made to secure some acquaintance with each of the principal divisions of the field of Geography: Regional Geography, Physiography, Meteorology and Climatology, Economic Geography, Anthropogeography and Political Geography.

For a *minor* in Geography, the "Fundamentals" and a course in Regional Geography are recommended for the first year, or General Geology for the second year, and "Natural Resources" or Economic Geography for the third year.

Additional courses recommended for *majors* or *minors* in Geography are as follows:

General Physics (Physics 11).

Principles of Economics (Ec. 11).

A Survey of International Relations (Hist. 18).

German and French (a good reading knowledge), English for at least two years, ancient and modern history, chemistry, and biology or botany are also recommended as foundations for advanced work in geography.

GRADUATE WORK IN THE SCHOOL OF GEOGRAPHY

The Graduate School of Geography is open to any who wish to receive professional training in geography, and who are qualified to enter the Graduate Division of the University and take advanced work in geography. The undergraduate preparation for advanced work is indicated by the above college program.

Degrees of Master of Arts and of Doctor of Philosophy are conferred. For the Master's degree two years may be required for those whose preparation is considered to be insufficient to permit them to qualify in the minimum time.

The following courses in other departments should be of interest to students in Geography: Botany (Biol. 14); Economic History (Ec. 14); Economic Statistics (Ec. 16); International Trade and International Finance (Ec. 27a); International Economic Policies (Ec. 31); The Pacific and the Far East (Hist. 22); Latin America (Hist. 27).

All prospective candidates for graduate degrees in geography who are in residence will be expected to attend the field camp for three weeks each autumn, and during the year to take part in the seminar.

Formal course work in geography ends in midwinter on January 15, and in spring on May 1, leaving students free to read and to coördinate their work prior to the examination periods.

Candidates for the master's degree in Geography will be expected to pass written examinations and a general oral examination in the following fields: physiography, climatology, soils, plant geography, land utilization and agricultural geography, economic geography, human geography, regional geography, and geography in education.

Candidates for the doctor's degree in geography will be expected to pass more advanced written examinations, and a general oral examination including the broad foundation required for the master's degree and such more advanced studies as the candidate may have pursued in the fields of his particular interests. In general, a year of work beyond the master's degree should prepare a candidate for his general examination which is preliminary to his being accepted as a candidate for the Ph.D. degree and to his entering on concentrated work for his Ph.D. dissertation. This year of course work may well include, besides certain advanced courses in geography, related advanced studies in history and international relations, economics, or biology. The student is given much freedom of choice. By February 1 of the year prior to the final one for the doctorate a prospective candidate for the doctorate will be expected to show a reading knowledge of German and French.[1] These two foreign languages are the most important for American geographers.

STUDENTS' FEES

All geography students in residence must meet the camp fee, the workroom fee, and a classroom materials fee.

The camp fee covers board and lodging, transportation, maps, drafting supplies, and meteorological instruments from the time the party leaves Worcester to go to camp till it returns at the end of the three weeks' period. The fee is $75, payable October 1 to the camp treasurer. The tuition fee for students participating in the field course only is $25.

The workroom fee is assessed to help maintain the geography workroom and equipment used by graduate students. It applies to the alcove desk, files of maps, the card catalog, drafting tables and instruments. There are also adding and computing machines. The workroom fee is $5.00 a semester, payable November 1 and March 1, to the departmental stenographer.

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[1] While German and French will normally be the two languages required, an exception might be made in a case where the dissertation for the doctorate demands a comprehensive knowledge of Spanish.

The classroom materials fee is for mimeographed outlines, abstracts, summaries, chapters of theses in the various courses and in the seminar and for the maintenance in part of the classroom wall-maps and other equipment, and for the small expense of balloons and hydrogen and of some meteorological instruments. The classroom materials fee is $5.00 each semester, payable November 1 and March 1, to the departmental stenographer.

COURSES IN GEOGRAPHY*

1. Primarily for Undergraduates

10a. The Significance of Geographic Environment. An introduction to the principles of geography.
Open to Freshmen.
Three hours, first semester. Tu. Th. S., 8. Mr. Atwood, Jr.

10b. Geographic Regions and Their Economic Significance.
Open to Freshmen.
Three hours, second semester. Tu. Th. S., 8. Mr. Atwood, Jr.

[100a. Conservation of Natural Resources.
Three hours, first semester. M. W. F., 8. Mr. Ridgley]

119a. Geography in Junior High School Education.
Three hours, first semester. Tu. Th. S., 9. Mr. Ridgley

181a. Geography of North America.
Open to Freshmen.
Three hours, first semester. M. W. F., 8. Mr. Ridgley

185b. Geography of Europe.
Three hours, second semester. M. W. F., 8. Mr. Ridgley

Geology 12. General Geology.
Three hours, through the year. M. W. F., 8; Th. 2. Mr. Little

12a. Weather.
Three hours, first semester. M. W. F., 9. Mr. Van Valkenburg
To be offered second semester 1934–35.

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*Beginning September 1934 "courses" listed as units of instruction for undergraduates will no longer be "credited" in "semester hours." Each such year course will be counted as "one course" and each such semester course, as a "half-course" unless specific notice to the contrary appears in connection with the announcement of the course.

12b. The World Climates.
Three hours, second semester. M. W. F., 9. MR. VAN VALKENBURG
To be omitted in 1934–35.

Biology 14. General Botany.
Three hours, through the year. MR. POTTER

17a. Geography of Worcester and Vicinity. A field and laboratory course. Prerequisite, Geography 10a and 10b and Geology 12, or equivalent.
Three hours, first semester. MR. ATWOOD, JR.
To be omitted in 1934–35.

18b. Regional Physiography of North America. Prerequisite, Geology 12, or 9 hours of geography.
Three hours, second semester. MR. ATWOOD, JR.

[Geology 121a. Mineralogy.
Three hours, first semester. MR. LITTLE]

[Geology 122b. Economic Geology.
Three hours, second semester. MR. LITTLE]

NOTE: *Geography courses in groups 2 and 3 will be omitted during the first semester of 1934–35 as the Staff will be engaged in field work for three months with the graduate students.*

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

26. Economic Geography. Prerequisites, Geography 10a, 10b, 12a, 12b, and Geology 12.
Two hours, through the year. Tu. Th., 9. MR. JONES

[201b. Geography of Asia.
Two hours, second semester. Tu. Th., 2. MR. VAN VALKENBURG]
To be offered in 1934–35.

202b. Political Geography.
To be omitted in 1934–35. Tu. Th. 2. MR. VAN VALKENBURG

[290a. Cartography and Graphics.
One hour, first semester. PRESIDENT ATWOOD AND MR. BURNHAM]

29b. Geography in Education. Prerequisites, Geography 10a and other geography courses totaling at least 12 hours.
Three hours, second semester. Tu. Th. S., 8. MR. RIDGLEY

3. EXCLUSIVELY FOR GRADUATE STUDENTS

30. Seminar.
Th., 3:30. STAFF

31. Regional Physiography. Prerequisite, Geology 12, or equivalent in physiography.
Two hours, through the year. M.W., 9; Tu., 2–3:30.
President Atwood and Mr. Atwood, Jr.

32. Regional Climatology. Prerequisite, Geography 12, a and b, or equivalent.
Two hours, through the year. M. W., 11; W. 2–3:30.
Mr. Van Valkenburg

33a. Soil Geography.
Daily, for one month. Mr. Marbut

34a. Plant Geography.
Two hours, first semester. M. W., 10. Mr. Ekblaw

35b. Land Utilization and Agricultural Geography.
Two hours, second semester. M. W., 2. Mr. Ekblaw

310. Research in Regional Physiography. President Atwood

320. Research in Climatology. Mr. Van Valkenburg

330. Research in Soils. Mr. Marbut

340. Research in Plant Geography. Mr. Ekblaw

[**341b. Plant Regions of the World.** Prerequisite, Geography 34a.
Two hours, second semester. M. W., 10. Mr. Ekblaw]

350. Research in Agricultural Geography or Land Utilization.
Mr. Ekblaw

[**36b. Industrial Geography.** Prerequisites, Geography 26a and 21a or 22a.
Two hours, second semester. M. W., 2. Mr. Jones]

360. Research in Industrial or Commercial Geography.
Mr. Jones

362b. Geographic Aspects of United States Foreign Trade.
Two hours, second semester. Tu. Th., 11. Mr. Jones

37a. General Principles of Human Geography. Prerequisites, 9 hours of geography or history and permission of the instructor.
Three hours, first semester. M. Tu. W., 2. Mr. Ekblaw
To be omitted in 1934–35.

370. Research in Human Geography. Mr. Ekblaw

375b. Geography of Europe.
Two hours, second semester. M. W., 10. Mr. Ekblaw
To be omitted in 1934–35.

380. Research in Regional Geography.
One or more members of the Staff

[383b. Caribbean America.
Two hours, second semester. Tu. Th., 11. MR. JONES]

384a. South America.
Two hours, first semester. Tu. Th., 11. MR. JONES

History 22. The Pacific and the Far East.
Three hours, through the year. M. W. F., 10. MR. BLAKESLEE

394a. Field Methods and Studies. Three weeks at the opening of the school year. Connecticut Valley, 1925 to 1930 inclusive; Cape Cod, 1931; Connecticut Valley, 1932 and 1933.

Required each year of all candidates for graduate degrees in geography.

In 1934–1935 this course will be offered as:

[394a. Three Months in the Field. A comprehensive field study of several selected areas of particular geographic interest in eastern United States. Regions to be visited in 1934 include the Finger Lakes, Shenandoah Valley, Great Smoky Mountains, the Tennessee Valley, Birmingham, New Orleans, Florida, and several areas on the Atlantic Coastal Plain and Piedmont. Special circular available.

One semester of residence graduate credit.

PROFESSORS ATWOOD, JONES, EKBLAW]
VAN VALKENBURG AND ATWOOD, JR.,

HOME STUDY COURSES IN GEOGRAPHY

There are many teaching geography in the schools of this country who have not had an opportunity to receive adequate special instruction in this field of work. During the last few years there have been notable developments in the methods used in the teaching of geography and notable changes in the political geography of the world. The human point of view should now dominate in all of the instructional work done with children; the subject should broaden the knowledge and world sympathies of the American people. It is necessary for all teachers of geography who wish to be abreast of the times to carry on in some way their own study and training.

The University wishes to extend its services as widely as possible for the betterment of the teaching of geography, and therefore, in addition to the regular resident courses and the Summer School work, in offering a series of Home Study Courses. Professor Ridgley is in immediate charge of this work.

COURSES

1. **The Teaching of Geography in the Elementary School.**

1a. **The Teaching of Geography based on the New York State Syllabus. Grades 3, 4, 5, and 6.**

2. **The Teaching of Home Geography and World as a Whole.**

2a. **The Teaching of Third Grade Geography based on the New York State Syllabus.**

3. **The Teaching of North America.**

4. **The Teaching of South America, Europe and Asia.**

5. **The Teaching of Geographic Factors and the United States in Its World Relations.**

5a. **Interpretation of the Globe, Maps, and Graphs.**

6. **Industrial and Commercial Geography.**

7. **Geography of North America.**

8. **Geography of South America.**

9. **Geography of Europe.**

10. **Home Study Course for European Travel.**

11. **Geography of the Eastern Continents.**

12. **The Physical Geography of the Lands.**

13. **Fundamentals of Climate.**

14. **Climates of the World.**

15. **Climatology of the United States.**

16. **Mathematical Geography.**

17. **Graphics and Cartography.**

18. **Special Studies in Geography.**

CREDITS AND TUITION

Each course consists of 36 written lessons and is intended to be the equivalent of a college course taken in residence, meeting three times per week for a semester of 18 weeks. In general, the preparation and the writing of each lesson is expected to require about four or five hours.

The tuition for each course is eighteen ($18) dollars, payable at the time of enrollment. A course may be begun at any time, but it should be completed within twelve months.

Further information about these courses will be sent upon request. Address all communications to Clark University, Home Study Department, Worcester, Mass.

THE SUMMER SCHOOL

OFFICERS OF INSTRUCTION AND ADMINISTRATION

Wallace Walter Atwood, Ph.D. President of Clark University and Director of the Graduate School of Geography.	Geography
Douglas Clay Ridgley, Ph.D. Director of the Summer School and Professor of Geography in Education, Clark University.	Geography
Clarence Fielden Jones, Ph.D. Professor of Economic Geography, Clark University.	Geography
Walter Elmer Ekblaw, Ph.D. Professor of Geography, Clark University.	Geography
Guy H. Burnham, A.M. Cartographer, Clark University.	Cartography
Homer Payson Little, Ph.D. Dean of the College and Professor of Geology, Clark University.	Geology
Dwight E. Lee, Ph.D. Associate Professor of Modern European History, Clark University.	History
Ray Allen Billington, A.M. Instructor in History, Clark University.	History
Samuel J. Brandenburg, Ph.D. Professor of Economics and Sociology, Clark University.	Economics
Gerald Barnes, Ph.D. Assistant Professor of Economics and Sociology, Clark University.	Sociology
Robert S. Illingworth, A.M., Ed.M. Associate Professor of English, Clark University.	English
Lydia P. Colby	Recorder
Florence Chandler	Bursar

The session of 1934 will begin July 2 and end August 10.

Instruction will be offered in geography, geology, history, education, economics and sociology, and English.

Qualified students are admitted upon presentation of proper credentials. Both undergraduate and graduate work is offered.

Work done in the Summer School may be counted, subject to the regulations of the College and the Graduate School and of the Faculty of the University, toward fulfillment of the requirements for the degrees of Bachelor of Arts, Bachelor of Education, and graduate degrees. Unless otherwise announced, each course is intended to be the equivalent of a course meeting two hours per week throughout a semester and is credited, when accepted toward the fulfillment of the requirements for a bachelor's degree in this University, for two semester hours.

The tuition charges are twenty dollars for a single course meeting five times a week, thirty-five dollars for two or three courses, and forty-five dollars for four courses. Rooms in the vicinity of the University cost from three dollars a week up, and board may be obtained at a reasonable rate.

The Summer School Bulletin, published about February 1, contains detailed information about the coming session with descriptions of the various courses, and may be had upon application to the Director of the Summer School, Clark University, Worcester, Mass.

The names of the students who attended the Summer School in 1933 will be found in the Register at the end of this catalogue.

FIELD TRIPS DURING AND FOLLOWING THE SUMMER SCHOOL

The field trips of 1934 are a continuation of a plan inaugurated by the Clark University Summer School in 1924 for the study of geography out-of-doors.

Appalachian Highlands Trip. Saturday, August 11, to Friday, August 24, 14 days. Instructor: Isabelle K. Hart, State Normal School, Oswego, New York.

European Field Trip. July and August, eight weeks. Instructor: Samuel Van Valkenburg, Clark University.

Full information concerning these trips will be furnished on request.

LIST OF COURSES

The starred courses (*) are those definitely intended, by the department concerned, for students who are candidates for the degree of Master of Arts in Clark University, but the courses are not restricted to such students.

GEOGRAPHY

SS11.	**Saturday Field Work in Geography.**	Dr. Ekblaw
SS12.	**Weather and Climate.**	Dr. Ridgley

SS14.	**Economic Geography.**	Dr. Jones
SS16.	**Geography of New England.**	Dr. Ekblaw
SS181.	**The Teaching of North America.**	Dr. Ridgley
SS190.	**Mathematical Geography.**	Mr. Burnham
SS191.	**Graphics and Cartography.**	Mr. Burnham
*SS27.	**Influences of Geographic Environment.**	Dr. Ekblaw
*SS28.	**Geography in Education for Special Teachers.**	Dr. Ridgley
*SS285.	**Geography of Europe.**	Dr. Ekblaw
*SS392.	**Field Methods and Studies.**	Dr. Jones
*SS30.	**Seminar in Geography.**	The Geography Staff
*SS34.	**Research in Economic Geography, or in Regional Geography.**	Dr. Jones
*SS37.	**Research in Human Geography, or in Geography of Europe.**	Dr. Ekblaw

GEOLOGY

SS1.	**Physical Geology.**	Dr. Little

HISTORY

SS101.	**American History since 1840.**	Dr. Billington
SS111.	**History of Europe since 1830.**	Dr. Lee
*SS22.	**European International Relations, 1870–1919.**	Dr. Lee
*SS201.	**Social and Intellectual History of the United States, 1607–1825.**	Dr. Billington
*SS354.	**Research in the History and International Relations of Europe.**	Dr. Lee
*SS355.	**Research in the History of the United States.**	Dr. Billington

ECONOMICS AND SOCIOLOGY

SS2.	**Problems of Economics.**	Dr. Brandenburg
*SS22.	**Labor Problems.**	Dr. Brandenburg
*SS32.	**Research in Selected Economic Problems.**	Dr. Brandenburg
SS11.	**Principles of Sociology.**	Dr. Barnes
*SS25.	**Social Problems.**	Dr. Barnes

ENGLISH

SS4.	**American Drama.**	Professor Illingworth
SS6.	**Modern American Poetry.**	Professor Illingworth

EDUCATION

SS22.	**Secondary Education.**	Professor Illingworth

THE DEGREE OF BACHELOR OF EDUCATION

The degree of Bachelor of Education is offered primarily to teachers, both men and women. A two-year normal school course or its equivalent is a prerequisite for admission to candidacy and a year of teaching experience is a prerequisite for the degree.

Candidates for this degree may earn the necessary residence credit by attendance at the Summer School or by enrolling in special courses for adults offered at the University during the regular academic year, or in such regular university courses as may be open to them.

Women who are candidates for this degree will usually not find it possible to secure a full program of courses during the regular academic year.

A normal program for summer school students consists of three courses, each yielding two semester hours of credit. Two extension courses, each yielding two semester hours of credit, constitute a normal program for teachers in service. Credit toward the degree may also be earned through the Home Study Department and in connection with the field trips offered by the Summer School, but credit so earned may not be used to reduce the minimum residence requirement of 30 semester hours.

Courses (designated as "College Courses for Adults") are offered during the regular academic year on Saturday morning and on certain afternoons for the convenience of candidates for this degree who are teaching in or near Worcester. By taking advantage of these courses it is possible for a teacher to complete in four years the equivalent of a year of study in residence.

The general administration of regulations applying to the degree of Bachelor of Education is lodged with the Committee on Extension Courses and Special Students, whose secretary acts as the administrative officer in dealing with students. The regulations applying to this degree are summarized in the following paragraphs.

1. ADMISSION REQUIREMENTS. The completion of a standard two-year course in a Massachusetts State Normal School or Teacher's College or the reasonable equivalent of such a course.

2. REQUIREMENTS FOR THE DEGREE:
   a. At least one year's teaching experience.
   b. At least 30 semester hours of credit earned *in residence* at Clark University.

c. 120 semester hours of college credit, including advanced standing based upon the admission requirements.

d. Requirements in particular subjects:
   (1) Six semester hours in Psychology or Education taken after the completion of the admission requirements.
   (2) Six semester hours of Laboratory Science taken after the completion of the admission requirements.
   (3) Ten semester hours of English, which may be completed in whole or in part before admission.
   (4) Ten semester hours of foreign language, which may be completed in whole or in part before admission.
   (5) Twelve semester hours of Economics, Geography, Government History, or Sociology, at least six of which must be taken after the completion of the admission requirements.

3. STANDARD OF SCHOLARSHIP: The same standard of scholarship is required of candidates for this degree as for the degree of Bachelor of Arts.

4. ADVANCED STANDING:

a. Credit of 54 semester hours will normally be given for the standard two-year course in a Massachusetts State Normal School or Teachers College. This may be reduced in special cases.

b. Credit will be allowed for work done at other Universities, Colleges, or Normal Schools, subject to reasonable regulations.

c. Not more than 30 semester hours of credit may be allowed for home study or extension courses. The acceptance of any work of this type is subject to the approval of the Committee on Extension Courses and Special Students. The "College Courses forAdults" offered by Clark University expressly for candidates for this degree are not subject to the restriction stated.

5. LAPSE OF CANDIDACY. Candidacy for the degree of Bachelor of Education terminates automatically whenever for a period of two years or more a candidate has failed to complete any courses in Clark University yielding credit toward the degree. A candidacy terminated under this rule may be renewed by action of the committee named above. Such renewal may involve a revision of allowances previously made, both in respect to total credit, and requirements in particular subjects.

Inquiries regarding the degree of Bachelor of Education should be addressed to the Recorder.

SPECIAL COURSES FOR TEACHERS

With the needs of candidates for the degree of Bachelor of Education in mind, the University offers a series of college courses for adults designed both in respect to content and time of meeting for teachers in the public schools of Worcester and the surrounding region. These courses are also open to the general public. When occasion arises the subject of aims and methods of teaching is treated in some of these courses.

During the academic year 1933–34, the following courses have been given:

BIOLOGY

1. **Economic Botany.** Mr. Potter
2. **Economic Zoology.** Mr. Pomerat

ENGLISH

1. **The Poetry of Many Lands.** Mr. Dodd
2. **Contemporary Biography.** Mr. Dodd
3. **Public Speaking and Dramatic Expression.** Mr. Illingworth
4. **The Modern Novel.** Mr. Illingworth

FRENCH

1. **Elementary Course.** Mr. Dougherty
2. **Intermediate Course.** Mr. Churchman
3. **Practical French (Advanced).** Mr. L. L. Atwood
4. **Seminar.** Mr. LaRue
5. **Supplementary Composition and Oral Work.** Mr. LaRue

GEOGRAPHY

1. **Geographic Influences in American History.** Mr. C. F. Jones
2. **Regional and Political Geography of Northern and Western Europe.** Mr. Van Valkenburg

GERMAN

1. **Kulturkunde: Intermediate Course.** Mr. Bosshard
2. **Konversations—und—Singabend.** Mr. Bosshard

CLARK UNIVERSITY

BULLETIN

No. 103 MAY, 1933

COURSES OF COLLEGE GRADE FOR ADULTS

Open to High School Graduates of Both Sexes

TO BE OFFERED IN THE
FIRST SEMESTER
1933-34

COURSES MEET ONCE A WEEK
LATE AFTERNOON AND SATURDAY MORNING

PROGRAM OF COURSES

MONDAY

4:20—6:00	Elementary French. Dougherty
4:20—6:00	Second Year French. Churchman
4:20—6:00	Zoology. Pomerat
8:00—10:00	Konversations — Und Singabend Bosshard

TUESDAY

4:20—6:00	Practical French. L. L. Atwood
4:20—6:00	Second Year German. Bosshard.
4:20—6:00	Geography. Van Valkenburg

WEDNESDAY

4:20—5:10	French Composition and Ora Work. LaRue
5:10—6:00	French Seminar. LaRue
4:20—6:00	Public Speaking and Dramatic E pression. Illingworth

THURSDAY

4:20—6:00	Contemporary Social Proble Brandenburg

FRIDAY

4:20—6:00	Botany. Potter

SATURDAY

10:00—11:40	Poetry of Many Lands. Dodd

Aim and Character of the Work

Clark University will again offer during the academic year 1933-34 a series of courses of college grade for students outside of the regular undergraduate body. Some of these courses, both n respect to content and time of meeting, are particularly intended for teachers in the schools of Worcester and the surrounding region. Many of them, however, have no such limited objective, but should appeal to the public on the grounds of utility or general culture.

All of these courses are open to mature persons who, in the judgment of the instructor, are suitably prepared. Those who do not desire official records of work done are admitted as "auditors" and are not required to "matriculate." The courses are of college grade and may be used for credit by those who are formally enrolled as candidates for the degree of Bachelor of Education in this University. Candidates for the degree of Bachelor of Arts may include these courses in their programs only when official authorization in advance is secured from the College Board. In similar circumstances candidates for the Master of Arts degree should secure the approval of their major departments in each case.

NOTE: While these course have always been open to high school graduates, they are this year particularly called to the attention of seniors and recent graduates with the thought that, because of existing economic conditions an opportunity for further study of this sort might be welcomed by those without employment or those who cannot at present attend a college at a distance. At the same time it is important that the exact nature of the opportunity offered shall be understood. There is no

promise of a complete four-year college program; no degree is given by Clark University for these courses except in the case of teachers who have had two years of normal school work; acceptance of these courses for college credit by other institutions is entirely subject to the decision of those institutions.

If there should be a large influx of students from the high schools into these courses, it would be the desire of the committee to widen their scope and increase their number. If, therefore, those who plan to attend will file their names before July 1, this will be to the advantage of all concerned.

Date of Opening

Classes will meet for organization and the beginning of work during the week Oct. 2-7, 1933, on the day specified in the description of each course.

Attendance at the first meeting and promptness at all classes are highly desirable. Early registration, even before the opening date, will be of assistance in determining which courses shall be given; those courses for which a good demand is evident early will naturally receive the preference.

Registration and Charges

Registration involves the filling out of an enrollment card and payment of the fee. Students are not enrolled until the *enrollment card and the fee* for each course have been received by the Bursar. Those who desire to avoid the delay involved in making payments at the office of the Bursar may enroll by mail.

Tuition charges are $8.00 for a course meeting one hour a week for one semester, and $15.00 for a course meeting two hours a week for one semester

The matriculation fee of $5.00 is a charge for the opening of an official record in the office of the university Recorder. Matriculated students receive official certificates on which credit toward a degree may be granted at Clark University or elsewhere, subject to the standing regulations of the institution to which they may be presented.

Class lists for all courses will be closed Oct. 21, 1933, and all fees are payable by noon of that date. Enrollment after that date will be possible only in special cases, with the consent of the Recorder.

A late registration fee of one dollar for each week of delay, or fraction thereof, will be charged in all cases when the fee is paid after the above date.

Standards, Credit, Terms of Admission

Only courses of college grade will be given, but students without the conventional preparatory training may be admitted to any course at the discretion of the instructor.

Courses will meet for periods of 50 to 100 minutes. The usual hours for afternoon courses running for 100 minutes will be from 4:20 to 6:00; hours for Saturday and evening courses will be decided by the individual instructors.

Credit. When accepted for undergraduate credit in this University, one semester hour will normally be granted for a two-hour course (100 minutes) meeting 8 times, or a one-hour course (50 minutes) meeting 16 times, and two semester hours for a two-hour course (100 minutes) meeting 16 times.

Regular outside preparation or collateral reading is expected in every course, except in the case of "auditors." This outside work will be

similar in amount to the preparation expected in regular undergraduate courses, namely an average of two hours per week for each semester hour of credit in the course. Those who prefer to attend without doing any outside work are welcome, but will be classed as "auditors."

In view of the outside work required it is obviously unwise for students who are otherwise busy to attempt many of these courses at the same time. By vote of the committee in charge of this work, persons who are in any full-time employment will not hereafter be permitted to register at any one time for courses carrying more than four semester hours credit.

FOR FURTHER INFORMATION ADDRESS:

LYDIA P. COLBY, *Recorder.*

LIST OF COURSES

NOTE: Any course for which there are fewer than 20 registrations at the time of the second scheduled meeting may be discontinued at the discretion of the instructor in charge.

Biology

1. ECONOMIC BOTANY. The subject matter of this course will deal with those plants which contribute either directly or indirectly to man's food, shelter, clothing and health. Their history, geographical distribution, relative importance and uses are topics which will be considered. The course is designed to fulfill the requirements for a full year's work, divided into two semesters, either of which may be taken separately. There is a laboratory fee of $1.00.

Two semester hours
Fridays, 4:20-6:00 MR. POTTER
Room 206

2. ECONOMIC ZOOLOGY. This course will deal with those animals which contribute either directly or indirectly to man's food, shelter, clothing and health. Their history, geographical distribution, relative importance and uses are topics which will be discussed. The course is designed to fulfill the requirements for a full year's work, divided into two semesters, either of which may be taken separately. There is a laboratory fee of $1.00.

Two semester hours
Mondays 4:20-6:00 MR. POMERAT
Room 206

NOTE: The above courses are offered during the same year so that a student may, by following both lines of work, obtain a broad concept of the field of Economic Biology. Plant and animal interrelations are so close and so numerous that to treat of one necessitates constant reference to the other.

Economics and Sociology

1. CONTEMPORARY SOCIAL PROBLEMS. This course considers important problems of recent or current nterest and seeks to understand them in the light of sound social policy. Monetary and banking issues, unemployment and relief programs, local and national taxation, tariffs, farm relief, minimum wage and other social legislation, etc., are typical of topics studied. In so far as practicable, however, he choice of topics will be determined by the inerests and desires of those electing the course. The work is planned to meet the needs of teachers of any of the social sciences, but it should be illuminating to all thoughtful persons who have an inelligent interest in our economic and social life. Lectures, required readings, discussions.

Two semester hours
Thursdays, 4:20-6:00 MR. BRANDENBURG
Room 115

English

1. The Poetry of Many Lands A reading course designed to acquaint members of the class not only with the best in American and English poetry but with that of France, Germany, Russia, Spain, Italy and the Scandinavian countries as well. The emphasis will be largely upon modern poetry with, however, many an alluring backward glance. The course is planned both for auditors and those who wish college credit. The first half of each meeting of the class will consist of a lecture, readings from the poets with biographical and critical comment. The second half will be given over to reports, oral and written, from those in the class seeking credit. Opportunity will be offered also for the writing of original verse.

Two semester hours
Saturdays, 10:00-11:40 Mr. Dodd
Room 102

2. Public Speaking and Dramatic Expression. The objectives of the course will be (1) to form the proper speech habits, (2) to teach students to speak extempore, to encourage thoroughness in the preparation of speech ideas and to develop ability to think logically, and (3) to study what constitutes a good speech and to give directions for constructing a good speech. The work in dramatic expression will include the interpretation of standard selections, as well as reading of various types of writing.

Two semester hours
Wednesdays, 4:20-6:00 Mr. Illingworth
Room 218

French

1. Elementary Course. A general introduction to the language for beginners and for those de

siring to renew their acquaintance with French. The primary object of this course is to develop facile reading ability, but due attention will be given to pronunciation, to comprehension of the spoken language, and to the fundamentals of grammar. If most of the members of the course be found to have had previous training in the language, additional instruction will be given, in the early stages, to those studying French for the first time.

Two semester hours
Mondays, 4:20-6:00 MR. DOUGHERTY
Room 218

2. SECOND YEAR COURSE. After a rapid review of the elements of French from the beginning, intensive new work will continue in Fraser and Squair's *New Elementary French Grammar* and Greenberg's *French Silent Reader* from the points reached in the beginners' class in June, 1933. A new start in elementary oral and phonetic work will be made through the use of Churchman's *Phonetic Gateway to French*. This course is open o all who have taken the course for beginners or who have otherwise secured a knowledge of elementary French.

wo semester hours
Mondays, 4:20 MR. CHURCHMAN
oom 104

3. PRACTICAL FRENCH (ADVANCED). This course open to anyone who has had the fundamentals French grammar. Its object is to develop abil- to understand, speak and write every-day conversational French. The ability to speak French *not* a prerequisite of the course. May be taken r credit for two years only.

wo semester hours
uesdays, 4:20-6:00 MR. LELAND L. ATWOOD
om 104

4. SEMINAR. Introduction to French literature by systematic study of some period, based upon Lecompte and Searles' *Anthology of Modern French Literature* (Holt) and Chinard's *Petite Histoire des lettres françaises* (Ginn). Papers, usually in French by members of the class and invited guests, on current topics of interest in French literature and civilization.

Open to the general public without fee or credit. Open also for credit to those who have had a preparation similar to that given in course 3 and who pay the regular fee. May be taken for credit indefinitely, as the content is continually changing.

One semester hour

Wednesdays, 5:10-6:00 MR. LARUE

Room 104

5. SUPPLEMENTARY COMPOSITION AND ORAL WORK. Designed especially to aid credit students in the Seminar in the preparation and criticism of papers there presented, but open to other interested and qualified persons. In addition to the preparation of papers, there will be a systematic study of pronunciation and phonetics and of special points in syntax (cf. Armstrong's *Syntax of the French Verb,* Holbrook's *Living French,* Fraser and Squair's *Complete French Grammar*).

One semester hour

Wednesdays, 4:20-5:10 MR. LARUE

Room 104

Geography

EUROPE. A geographical interpretation of th continent and the different countries; of genera value to everyone interested in Europe and o

Regional + Pol. Geog. of Northern + Western Eur practical value to those who have to teach the geography of Europe.

Two semester hours

Tuesdays, 4:20-6:00 MR. VAN VALKENBURG

Room 120

Geog. Infl. in Am. Hist. C. F. Jones

German

1. ELEMENTARY GERMAN. This course is designed to give practical training in German to persons with little or no previous training in the language. It makes a careful study of the grammatical fundamentals and the close relationship between English and German, and uses the spoken word freely for the acquisition of a limited active vocabulary. Reading of easy material designed to acquaint the students with the cultural background of German life.

Two semester hours

Will be offered in 1934-5, or 1935-6

2. KULTURKUNDE. Intermediate course. This course offers oral and written composition, stressing the fluent use of modern German. The subject matter of the course is old and new material designed to portray in various ways the cultural background of German life inside and outside the boundaries of the German republic. The reading material includes prose selections and lyrics that illustrate some of the aspects of modern German literature.

Two semester hours

Tuesdays, 4:20-6:00 Room 106 Mr. Bosshard

3. CLASSICAL LITERATURE. Advanced reading. Reading and interpretation of classical literature.

~~*Tuesdays, 4:20-6:00*~~ MR. BOSSHARD

Room 106

Special emphasis will be laid on the interpretatio
of Goethe and his Weltanschauung.
Two semester hours
Will be offered in 1934-35, or 1935-36

4. Konversations—und Singabend. Lecture
discussions and singing in German. Open withou
fee or credit to all students sufficiently prepare
Two semester hours
Mondays, 8:00-10:00 P. M. (22 Baker St.)

Mr. Bosshar

Sociology

See Economics and Sociology.

INSTRUCTORS

Leland L. Atwood—Head of Department of Modern Languages, Worcester Polytechnic Institute
H. M. Bosshard—Associate Professor of German
S. J. Brandenburg—Professor of Economics an Sociology.
P. H. Churchman—Professor of Romance Languages.
L. H. Dodd—Professor of Rhetoric.
D. M. Dougherty—Assistant Professor of Romance Languages.
R. S. Illingworth—Associate Professor of English
E. O. LaRue—Professor in Assumption College.
C. M. Pomerat—Assistant in Biology.
David Potter—Associate Professor of Biology.
Samuel Van Valkenburg—Associate Professor o Climatology and Regional Geography.

FACULTY COMMITTEE IN CHARGE

S. J. Brandenburg
Vernon Jones
H. P. Little
C. E. Melville
D. C. Ridgley
P. H. Churchman, *Chairman*

CLARK UNIVERSITY BULLETIN

NUMBER 104 JUNE, 1933

COURSES IN EDUCATION

FOR THE
ACADEMIC YEAR OF
1933-1934

The Bulletin is published in January, February, March, April, May, June, October, November and December.

Entered as second-class matter, December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized January 24, 1921.

COURSES IN EDUCATION
FOR THE
ACADEMIC YEAR OF 1933-1934

CLARK UNIVERSITY from the date of its founding has taken an active interest in the training of educators. The pioneer work of G. Stanley Hall in child study and that of William H. Burnham in mental hygiene placed Clark among the first universities in America to become interested in the problems of the teacher and the learner as suitable ones for scientific study. Thus there grew up, along with the older fields of study such as chemistry, physics, history, geography, and the like, the Department of Psychology which has centered its attention upon the study of behavior in its many forms. Every year graduates from these departments have gone into a variety of teaching positions ranging from that of supervisor or teacher in the elementary school to that of professor in normal school, college, and university.

In its rather wide experience in the training of educators, Clark has always held to the principle that a teacher must first of all be a scholar in the field in which he is to teach. It is encouraging to see that this view is spreading among superintendents of schools and Boards of Education, at least in New England. It is also encouraging to see in the University a sentiment growing in the majority of the departments to the effect that something more than mastery of subject-matter is needed in the preparation of teachers, at least for positions below the college level.

In consequence of the increased appreciation, on the part of the undergraduate and graduate departments at the University, of professional courses in Education in addition to thorough grounding in the subjects to be taught, the Faculty voted in 1932 to appoint a standing committee on Courses in Education. The duty of this committee was "to enlarge the number of courses offered in the field of Education, and to assume the administrative responsibility that a department would have in the conduct of such work, with the understanding that the Committee is responsible to the Faculty."

In organizing such courses the Committee has kept in mind the needs of (1) undergraduate and graduate students without teaching experience who are preparing to enter the profession, and (2) experienced teachers holding baccalaureate degrees who wish to extend their training by full or part-time study. It is for this latter group especially that this bulletin has been prepared.

Organization of Courses Leading to a Master's Degree

To meet the needs for work in Education the University has not deemed it wise to set up a separate department, but rather to encourage the evolving of a plan of co-operation between the Committee on Courses in Education and certain interested departments such as those of history, geography, chemistry, and economics-sociology. Students who are interested in pursuing study to the Master's degree with work in Education should plan to major in one of the regularly established departments, and elect a minor of from 6 to 12 semester hours in Education.

A plan has been worked out between the Committee on Courses in Education and the majority of the graduate departments in the university whereby this can be done. The cooperative arrangement is somewhat different for different departments, and therefore the requirements in each department will be presented separately.

REQUIREMENTS IN THE VARIOUS MAJOR DEPARTMENTS WHICH ARE ACCEPTING EDUCATION COURSES TOWARD THE M.A. DEGREE

The full requirements and prerequisites in the various departments cannot be given here, but some indication can be given as to the number of semester hours that will be required and the amount of Education which may be counted toward the degree. Prospective students who desire further information about the courses and requirements in the departments should write to the Recorder of the University for a general Catalogue. In addition to the course requirements given below, it will be necessary for the student to prepare an acceptable thesis and pass whatever general examination his department may require.

Department of Chemistry. Properly qualified students applying to this Department through the Committee on Courses in Education will be required to complete 24 semester hours of work beyond the Bachelor's degree. Six hours of this may be taken in Education. This requirement will, of course, be increased in the case of students who cannot satisfy all prerequisites for courses which they wish to enter.

Department of Economics and Sociology. Candidates for the Master's degree in this Department must offer a minimum of 21 semester hours beyond the Bachelor's degree. A maximum of 10 semester hours in Education may be counted toward this course requirement. Failure to meet the prerequisites for any courses will obviously serve to increase the amount of work required.

Department of Geography. Students who come adequately prepared to enter the Graduate School might normally expect to complete in two years the work for the Master's degree with a major in Geography and a minor in Education, including as much as 12 hours in Education.

Department of History and International Relations. Candidates for the Master's degree in this Department must offer a minimum of 18 semester hours beyond the Bachelor's degree. The Department will accept a maximum of 6 semester hours of work in Education as a part of the course requirements. Failure to meet the prerequisites for any courses will obviously serve to increase the amount of work required.

The Department of Biology invites correspondence from properly qualified students who may wish to major in that Department.

Time of Meeting for Classes in Major Departments. The schedule for all classes is given in the general Catalogue of the University and need not be repeated here. A copy of the Catalogue may be obtained from the Recorder upon request. In the case of students who wish to do their work, or the major part of it, in afternoon and Saturday classes, it is suggested that they submit to the Chairman of the Committee on Courses in Education a tentative program of courses which they wish to offer for the degree and he will submit these to the various Departments for their consideration. Where there is sufficient demand for a course in the late afternoon or Saturday, it will be possible in certain cases to schedule it at that time, especially a course marked "hours to be arranged."

ADMISSION REQUIREMENTS TO THE GRADUATE SCHOOL

Eligibility. Admission is granted only by the Graduate Board on the recommendation of a department. A graduate of more than average ability from a college or university which is on the approved list of the Association of American Universities is eligible for admission as a regular graduate student. A graduate of superior attainments from a four-year college not on the list is normally eligible for admission as a special graduate student for a specified period. A special graduate student may be admitted by the Graduate Board to regular graduate standing after a semester, or its equivalent, of study and upon the recommendation of his major department.

Application. A prospective student should write to the Recorder for an application blank. This blank should be filled out and sent to the Committee on Courses in Education. A recent photograph (passport size preferred) should accompany the application. A definite statement should be made by the prospective student as to whether or not he plans to do full-time residence work for all or part of the residence period or whether he plans to do all his work on a part-time basis. If he proposes to do any part-time work he should state the hours which he plans to devote to university study. Application should be in by September 24 for first semester courses and by February 3 for second semester courses.

Admission. Admission will be determined by the Graduate Board's estimate of the applicant's general preparation and his plan for study. Acceptance into the graduate school does not, of course, imply in any way admission to candidacy for a degree. The latter is dependent upon the class-work and research done in the University.

Fees. The tuition for full-time students in the University is $200.00 per year. In addition to this all students are required to pay a matriculation fee of $5.00. Students carrying small programs are charged at the rate of $10.00 per semester hour of course credit.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

Students who have been regularly admitted to the Graduate School, or others who have met all special requirements imposed by the Graduate Board, are eligible for the degree of Master of Arts if and when the following requirements are met: (1) The satisfactory completion of all course requirements imposed by the major department; (2) The preparation of an acceptable thesis; and (3) The passing of a final oral examination of approximately one hour's duration.

It is important for students primarily interested in Education to note that since the Education courses are not organized into a Department, it is impossible to elect Education as a major. However, it is believed that the needs of many students can be met by the cooperative arrangement which has been made with various departments whereby a liberal amount of work in Education may be taken as a minor. In general it is recommended that students interested in school administration should major in finance and taxation or socioeconomic problems in the Department of Economics. Those interested in teaching or supervising certain subjects in the elementary or secondary school should major in the subject to be taught or supervised.

COURSES IN EDUCATION

(Any of the following courses are accepted for graduate credit except Education 17b and 119a.)

Education 14a. *Educational Psychology.* A study of psychology as it bears upon the problems of education. *Three hours,* first semester. W. Th. F., 12. Professor Jones

Education 15b. *Individual Differences and Exceptional Children.* The course will include a study of the bright, the dull, the psychoneurotic, and the delinquent child. *Three hours,* second semester. Hours of meeting to be arranged. This may be given in late afternoon if there is sufficient demand for such an hour. Professor Jones

Education 16a. *Principles of Education.* A survey of the aims, responsibilities, and general methods in education. *Three hours,* second semester. Hours to be arranged. Professor Jones

Education 17b. *Philosophical and Historical Foundations of Modern Education.* (Primarily for undergraduates) *Three hours.* Given in alternate years. Omitted in 1933-34. Professor Jones

Education 19a. *Psychology of Character.* Psychological and educational principles applied to character and citizenship training. (Graduate students may register for two hours of credit attending only the two-hour meetings on Saturdays.)

Three hours or *two hours,* first semester. To be offered in 1933-34 and in alternate years. Th., 11-12; S., 11-12:45. Professor Jones

Education 101a. *The Teaching of Modern Languages.* A study of the major problems in the teaching of French. Incidental references will be made to German and Spanish. Prerequisite, third year college French or German course, taken previously or at the same time.
Three hours, first semester. To be offered in 1933-34 and in alternate years. Hours to be arranged. The class will be scheduled in the late afternoon if there is sufficient demand for such an hour. Professor Churchman

Education 144a. *The Teaching of English.* Methods of teaching poetry, drama, novel, short story, essay, oral and written composition. Prerequisite, at least 12 semester hours of English on the college level.
Three hours, first semester. Hours to be arranged. Can be scheduled in late afternoon and Saturday morning if there is sufficient demand for such hours. Professor Illingworth

Education 119a. *Geography in Junior High School Education.* An analysis of the organization and administration of junior high school curricula. The place of geography in the social studies program.
Three hours, first semester. Tu. Th. S., 9.
Professor Ridgley

Education 29b. *Geography in Education.* A survey of geography in present-day American school systems. Prerequisite, geography courses totaling 18 hours.
Three hours, second semester. Tu. Th. S., 8.
Professor Ridgley

Education 313a. *Advanced Educational Psychology: Statistical Methods.*
Two hours, first semester. Tu., 4:20-6:00.
Professor Jones

Education 314b. *Advanced Educational Psychology: Tests and Measurements.*
Two hours, second semester. Tu., 4:20-6:00.
Professor Jones

Date of Registration

The date of registration for first semester courses is September 26; that for second semester courses is February 5. Application for admission must be in two days before the registration date.

Inquiries

All inquiries and application for admission should be sent to the Chairman of the Committee on Courses in Education.

PHILIP H. CHURCHMAN
ROBERT S. ILLINGWORTH
DOUGLAS C. RIDGLEY
VERNON JONES, *Chairman*

Committee on Courses in Education

CLARK UNIVERSITY

BULLETIN

No. 107 DECEMBER, 1933

COURSES OF COLLEGE GRADE FOR ADULTS

**Open to High School Graduates
of Both Sexes**

TO BE OFFERED IN THE
SECOND SEMESTER
1933-34

COURSES MEET ONCE A WEEK
ATE AFTERNOON AND SATURDAY MORNING

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8:00—10:00	Konversations — Und Singabend Bosshard

TUESDAY

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4:20—6:00	Present International Problems Blakeslee
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All of these courses are open to mature per- ns who, in the judgment of the instructor, are itably prepared. Those who do not desire offi- al records of work done are admitted as "audi- rs" and are not required to "matriculate." The urses are of college grade and may be used r credit by those who are formally enrolled as andidates for the degree of Bachelor of Education this University. Candidates for the degree of achelor of Arts may include these courses in their rograms only when official authorization in ad- ance is secured from the College Board. In simi- r circumstances candidates for the Master of rts degree should secure the approval of their ajor departments in each case.

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Only courses of college grade will be given, but udents without the conventional preparatory aining may be admitted to any course at the dis-etion of the instructor.

Courses will meet for periods of 50 to 100 min-es. The usual hours for afternoon courses run-ng for 100 minutes will be from 4:20 to 6:00; urs for Saturday and evening courses will be cided by the individual instructors.

Credit. When accepted for undergraduate edit in this University, one semester hour will rmally be granted for a one-hour course (50 nutes) meeting 16 times, and two semester hours r a two-hour course (100 minutes) meeting 16 nes.

Regular outside preparation or collateral read-g is expected in every course, except in the se of "auditors." This outside work will be nilar in amount to the preparation expected regular undergraduate courses, namely an erage of two hours per week for each semester ur of credit in the course. Those who prefer attend without doing any outside work are lcome, but will be classed as "auditors."

In view of the outside work required it is ob-usly unwise for students who are otherwise sy to attempt many of these courses at the me time. By vote of the committee in charge this work, persons who are in any full-time

employment will not hereafter be permitted t register at any one time for courses carryin more than four semester hours credit.

FOR FURTHER INFORMATION ADDRESS:

LYDIA P. COLBY, *Recorder.*

LIST OF COURSES

NOTE: Any course for which there are fewe than 20 registrations at the time of the secon scheduled meeting may be discontinued at th discretion of the instructor in charge.

Biology

1. ECONOMIC BOTANY. The subject matter o this course will deal with those plants which contribute either directly or indirectly to man's food, shelter, clothing and health. Their history, geographical distribution, relative importance and use are topics which will be considered. The course i designed to fulfill the requirements for a full year's work. divided into two semesters, either of whic may be taken separately. There is a laborator fee of $1.00.

Two semester hours
Fridays, 4:20-6:00 MR. POTTER
Room 206

2. ECONOMIC ZOOLOGY. This course will dea with those animals which contribute either directl or indirectly to man's food, shelter, clothing and health. Their history, geographical distribution relative importance and uses are topics which wil be discussed. The course is designed to fulfill the requirements for a full year's work, divided int two semesters, either of which may be taken sepa-

rately. There is a laboratory fee of $1.00.
Two semester hours
Mondays 4:20-6:00 Mr. Pomerat
Room 206

NOTE: The above courses are offered during the same year so that a student may, by following both lines of work, obtain a broad concept of the field of Economic Biology. Plant and animal interrelations are so close and so numerous that to treat of one necessitates constant reference to the other.

English

1. Contemporary Biography. The outpouring, in the last ten years, of biographies, autobiographies, journals and collections of letters, has made our own not only the supreme biographic era but a very fascinating one. From a carefully chosen list of one hundred and fifty such works by writers, painters, sculptors, architects, people of the stage and others the student will make his own selections. Reports from notes and by written papers will be regularly required. There will be lectures and readings from biography old and new. The course may count for either one or two hours credit and is designed also for those who wish only to be auditors.

One, or two, semester hours
Saturdays, 10:00-11:40 Mr. Dodd
Room 119

2. The Modern Novel. A study of the novel from the beginning of the century to and including the present year. Reading and discussion of representative novels by the best English, Ameri-

can and continental novelists. Study of personalities, influences, movements, story types, and critical standards will be presented in class by the instructor.

One, or two, semester hours
Wednesdays, 4:20-6:00 Mr. Illingworth
Room 102

French

1. Elementary Course. Particular attention will be given during the second semester to practice in rapid translation of modern French short stories into English. Exercises in pronunciation and grammar in Fraser, Squair, and Carnahan, *Brief French Grammar,* continued. Students who have completed one year of French in high school or college, or the equivalent, will be admitted to this course at the beginning of the second semester.

Two semester hours
Mondays, 4:20-6:00 Mr. Dougherty
Room 218

2. Second Year Course. Intensive work will continue in Fraser and Squair's *New Elementary French Grammar* and Greenberg's *French Silent Reader* from the points reached at the end of the first semester. Oral and phonetic work will be continued in Churchman's *Phonetic Gateway to French.* This course is open to all who have a knowledge of elementary French. New members admitted in the second semester.

Two semester hours
Mondays, 4:00-6:00 Mr. Churchman
Room 104

3. Practical French (Advanced). The main purpose of the course is to accustom the ear of

e student to spoken French and to develop the
ility to express oneself in the foreign language.
here will also be some practice in free composi-
on. Although French will be the language of the
assroom, it is not assumed that the student has
lready developed the ability to express himself
rfectly. This will come with practice, and those
udents who have studied French for two years
ould consider themselves satisfactorily prepared.
hile the course carries on the work of the first
mester, new students will find no difficulty in
ginning the work at this time.

wo semester hours
uesdays, 4:20-6:00 Mr. Leland L. Atwood
oom 104

4. Seminar. Introduction to French literature
systematic study of some period, based upon
ecompte and Searles' *Anthology of Modern French*
iterature (Holt) and Chinard's *Petite Histoire des*
ttres françaises (Ginn). Papers, usually in
rench, by members of the class and invited guests,
current topics of interest in French literature
d civilization.

Open to the general public without fee or credit.
pen also for credit to those who have had a
reparation similar to that given in course 3 and
ho pay the regular fee. May be taken for credit
definitely, as the content is continually changing.

ne semester hour
ednesdays, 5:10-6:00 Mr. LaRue
oom 104

5. Supplementary Composition and Oral
ork. Designed especially to aid credit students

in the Seminar in the preparation and criticism o papers there presented, but open to other interested and qualified persons. In addition to the preparation of papers, there will be a systematic study of pronunciation and phonetics and of special points in syntax (cf. Armstrong's *Syntax of the French Verb,* Holbrook's *Living French,* Fraser and Squair's *Complete French Grammar*).

One semester hour
Wednesdays, 4:20-5:10 Mr. LaRue
Room 104

Geography

1. Geographic Influences in American History. A lecture course tracing the influence of geographic conditions on the chief currents in American History. The geographical and historical combination of conditions that led to the discovery and exploration of America; the methods of settlement of the Spaniards, French and English in the extension of their American Empires: contrasts between the geography of New England and the South English sea-board colonies; the Western migration and the expansion of the United States from the Atlantic to the Pacific; the United States as a continental power, politically, industrially, commercially; the expansion of the United States into the Caribbean and to the Pacific; the United States as a world power. Though primarily a lecture course, reference will be made to source materials and to useful story materials suitable for use by teachers wishing to correlate history and geography in the grades.

Two semester hours
Wednesdays, 4:20-6:00 MR. C. F. JONES
Room 120

This course continues through the year but each emester may be taken separately.

2. EUROPE. A geographical interpretation of he continent and the different countries; of general value to everyone interested in Europe and f practical value to those who have to teach he geography of Europe. A continuation of the ourse given in the first semester, but also open to ewcomers.

wo semester hours
uesdays, 4:20-6:00 MR. VAN VALKENBURG
oom 120

German

1. KULTURKUNDE. Intermediate course. This ourse offers oral and written composition stressing e fluent use of modern German. The subject atter of the course is old and new material esigned to portray in various ways the cultural ackground of German life inside and outside e boundaries of the German republic. The reading material includes prose selections and lyrics at illustrate some of the aspects of modern German literature. New students for the second emester admitted.

wo semester hours
uesdays, 4:20-6:00 MR. BOSSHARD
oom 106

2. KONVERSATIONS—UND SINGABEND. Readings, ctures, discussions and singing in German. Open ithout fee or credit to all students sufficiently repared.

Monday, 8:00-10:00 P.M.
22 Baker Street

Mr. Bosshard

NOTE: Next year a third year course will be offered: *Classical Literature.* Reading and interpretation of classical literature. Special emphasis will be laid on the interpretation of Goethe and his general view of life.

Two semester hours.

International Relations

1. Present International Problems. The issues in the Far East and the problem of War. In the Far East: the struggle between Japan, Russia and China; Manchukuo *vs* the World; war preparations by Japan and the Soviet Union; friction between Japan and the United States. What should be the policy of the United States toward Japan, Soviet Russia and China? Under War: the character of the next war; must war always exist; methods suggested for abolishing war as an institution; official policy of the United States; the teacher and the problem of war.

Two semester hours
Tuesdays, 4:20-6:00 Mr. Blakeslee
Room 220

STAFF

Leland L. Atwood—Head of Department of Modern Languages, Worcester Polytechnic Institute.

G. H. Blakeslee—Professor of History and International Relations.

H. M. Bosshard—Associate Professor of German.

P. H. Churchman—Professor of Romance Languages.

L. H. Dodd—Professor of Rhetoric.

D. M. Dougherty—Assistant Professor of Romance Languages.

R. S. Illingworth—Associate Professor of English.

C. F. Jones—Professor of Geography.

E. O. LaRue—Formerly Professor in Assumption College.

C. M. Pomerat— Instructor of Biology.

David Potter—Associate Professor of Biology.

Samuel Van Valkenburg—Associate Professor of Climatology and Regional Geography.

FACULTY COMMITTEE IN CHARGE

S. J. Brandenburg
Vernon Jones
H. P. Little
C. E. Melville
D. C. Ridgley
P. H. Churchman, *Chairman*

ACE W. ATWOOD
and Regional Geography

CLAS C. RIDGLEY
graphy in Education

NCE F. JONES
and Commercial Geography

MAR EKBLAW
Geography and
geography

CLARK UNIVERSITY
SCHOOL OF GEOGRAPHY
WORCESTER, MASSACHUSETTS

S. VAN VALKENBURG
Climatology and Regional Geography

WALLACE W. ATWOOD, JR.
Physiography and Regional Geography

CURTIS F. MARBUT
Soils and Soil Distribution

GUY H. BURNHAM
Cartographer

September 20, 1933

Dear M

Last spring when the Extension Committee made plans for extension courses for the present academic year, I did not plan to have a class. Yesterday a list of 19 names of persons interested in having me offer "Geographic Influences in American History" was handed to me. President Atwood and the Committee on Extension Courses wish me to offer this course if 20 or more students request it.

Because of the wishes of these 19 students, President Atwood, and the Committee on Extension Courses, I am planning to offer "Geographic Influences in American History" -- a lecture course tracing the influence of geographic conditions on the chief currents in American History. The geographical and historical combination of conditions that led to the discovery and exploration of America; the methods of settlement of the Spaniards, French and English in the extension of their American Empires; contrasts between the geography of New England and the South English sea-board colonies; the western migration and the expansion of the United States from the Atlantic to the Pacific; the United States as a continental power, politically, industrially, commercially, the expansion of the United States into the Caribbean and to the Pacific; the United States as a world power. Though primarily a lecture course, reference will be made to source materials and to useful story materials suitable for use by teachers wishing to correlate history and geography in the grades.

I shall hold the class on Wednesdays, from 4:20 to 6:00. The first meeting will be on October 4th.

You may be interested to know that since offering the course four years ago, I have completed the revision of Dr. Ellen C. Semple's "American History and its Geographic Conditions", a volume which was standard for 30 years. The revised edition was published last spring. I shall conduct the course as a lecture course but I know you will be interested in getting acquainted with the revised edition of Miss Semple's book.

I shall appreciate it if you will call this course to the attention of other persons who may be interested.

Sincerely yours,

Clarence F. Jones
Clarence F. Jones

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DEPARTMENTAL ANNOUNCEMENTS

Courses* offered by the several departments are listed under three headings:

1. Primarily for Undergraduates, designated by numbers beginning with the figure (1).
2. For Graduate Students and Advanced Undergraduates, designated by numbers beginning with the figure (2).
3. Primarily for Graduate Students, designated by numbers beginning with the figure (3).

Brackets [ ] about the announcement of a course indicate that the course is not offered during the current year.

Credit for the first semester alone is given in all courses except in cases where a department, by a note following the description of the course, specifically reserves the right to withhold credit until the second semester of the course is satisfactorily completed.

Any course may be entered at the beginning of the second semester, with the consent of the instructor, by students who are prepared to take up the work of the course at that time.

DEPARTMENT OF ANCIENT LANGUAGES

Professor Brackett

For a major in ancient languages the requirement is twenty-four semester hours from the courses described below.

COURSES IN GREEK*

1. Primarily for Undergraduates

11. First Year Course. Divisible only in special cases with the approval of the department and of the College Board.

Open to freshmen.

Four hours, through the year. M., 2; Tu. Th. S., 9. Mr. Brackett

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*Beginning September 1934 "courses" listed as units of instruction for undergraduates will no longer be "credited" in "semester hours." Each such year-course will be counted as "one course" and each such semester-course as a "half-course," unless specific notice to the contrary appears in connection with the announcement of the course.

[**12. Xenophon,** *Anabasis;* **Homer,** *Iliad.* About ten weeks at the beginning of the year are devoted to reading selections from the *Anabasis*, the principal aim being to increase the student's facility in translation. The remainder of the year is devoted to the *Iliad.*

Open to freshmen.

Three hours, through the year. Tu. Th. S., 10. MR. BRACKETT]

[**13. The Greek Drama.** Aeschylus, *Prometheus Bound;* Sophocles, *Antigone;* Euripides, *Medea.*

Three hours, through the year. MR. BRACKETT]

16. Greek and Roman Drama in English. Selected plays of Aeschylus, Sophocles, Euripides and Aristophanes in Greek drama; Plautus, Terence and Seneca in Roman drama.

Three hours, through the year. M. W. F., 11. MR. BRACKETT

[**Greek 17. Greek History.** This course will cover the period from the beginnings of Greek history to 146 B.C.

Open to freshmen with the consent of the instructor.

Three hours, through the year. M. W. F., 11. MR. BRACKETT]

COURSES IN LATIN*

1. PRIMARILY FOR UNDERGRADUATES

[**11. First Year Course.**

Open to freshmen.

Three hours, through the year. M. W. F., 10. MR. BRACKETT]

[**12. Cicero,** First Oration against Verres, selected Epistles; Selections from **Catullus; Horace,** selected Epodes and Odes.

Open to freshmen.

Three hours, through the year. Tu., 2; Th. S., 8. MR. BRACKETT]

[**15a. Selections from Caesar and Cicero.** This course is open to students who have had Latin 11 or its equivalent. The principal aim is to increase the student's ability to read Latin.

Three hours, first semester. MR. BRACKETT]

[**15b. Selections from Ovid's** *Metamorphoses.*

Three hours, second semester. MR. BRACKETT]

16a. Selections from Lucretius, De Rerum Natura and Cicero, Tusculan Disputations.

Three hours, first semester. M. W. F., 9. MR. BRACKETT

18b. The Teaching of Latin; Latin Composition.

Three hours, second semester. M. W. F., 9. MR. BRACKETT

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*See footnote, p. 61.

[17. **Roman History.** This course will deal with the history of Rome from the earliest period to the downfall of the Western Roman Empire, with special emphasis upon those aspects of the history which have permanently influenced western civilization.
Three hours, through the year. MR. BRACKETT]

DEPARTMENT OF BIOLOGY

PROFESSOR HOAGLAND, ASSOCIATE PROFESSOR POTTER, MR. POMERAT.

Also PROFESSOR HUNTER AND ASSISTANT PROFESSOR GRAHAM *of the Department of Psychology**

GENERAL STATEMENT

The Department of Biology is on the second floor of the Main Building of the University. The laboratories are well-equipped for the courses offered and contain special equipment for advanced investigations in physiology. In addition, annual funds are available for purchasing and building apparatus as it may be required. A small herbarium and a synoptic collection of animals are available for study. The University Library contains complete files of the more important periodicals and reference works. Certain assistantships, fellowships and scholarships are available from time to time.

UNDERGRADUATE WORK

Biology 11 presents a comprehensive view which is prerequisite to all other courses in the department. Courses 12, 14, 15a, 16b, and 17b are planned to give the undergraduate a working acquaintance with fundamental aspects of zoölogy and botany. Course 200 introduces the student to the behavior of living systems.

An undergraduate majoring in biology is expected to complete:

1. Biology 11 and eighteen semester hours in advanced courses, including Biology 12 and 200. Attendance at weekly discussion groups is also expected.
2. Mathematics 10 or 11 and 101 or 12.
3. Physics 11.
4. Chemistry 11.
5. French or German to an amount sufficient to give a good reading knowledge.

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*Advanced courses in Psychology given by Professor Hunter and Professor Graham may, with the permission of the chairman of the department, be credited as courses in Biology.

Undergraduates who *major* in biology should *minor* in chemistry or in physics. Biology 200, preferably taken in the senior year, brings to a biological focus, in the study of living organisms, many chemical and physical principles.

The departments of chemistry, biology and physics recommend the following program for pre-medical students. Election of an additional course in biology in either the junior or senior year will make possible a major or minor in either biology or chemistry. In any case a student should start his work in chemistry his freshman year. These recommendations do not in any way affect the general requirements of the College which apply to all students in the College.

Freshman Year

Chemistry	10 or 11	General Chemistry
Mathematics	10 or 11	
English	11	
A modern language (preferably German)		
A course in Division B		

Sophomore Year

Chemistry	13	Qualitative Analysis
Biology	11	General Biology
Physics	11	General Physics
Mathematics	101 or 12	Calculus
A modern language		

Fine Arts. A required course, given in the second semester.

NOTE: A student must maintain an average rank of 50 in 100 or better during the first semester of the sophomore year in order that he may enroll for a sixth course in the second semester.

Junior Year

Chemistry	19	Physical Chemistry
Biology	12	Vertebrate Anatomy
English		
A course in Division B		
An elective (if the foreign language requirement has been met in full)		

Senior Year

Organic Chemistry	
Biology	200

Advanced courses in chemistry, physics, biology, physiology or electives.

GRADUATE WORK

By action of the Board of Trustees, the Department of Biology was reorganized on a full graduate basis beginning in September, 1931. Students whose records are approved by the chairman of the department may be admitted by the Graduate Board for work leading to the degree of Master of Arts in biology or to the degree of Doctor of Philosophy in physiology. The general plan of organization involves a relationship between the Department of Psychology and the Department of Biology whereby students in either department may be credited with certain advanced courses and research in the other. Certain advanced courses in the departments of physics, chemistry and mathematics may also be credited in the Department of Biology.

The general requirements for the master's degree and for the doctorate are stated elsewhere in this catalog. In addition to the general requirements, the department has a supplementary requirement that an additional copy of each doctor's dissertation must be deposited with the department.

The analysis of fundamental activities of living organisms is necessarily undertaken upon the basis of physico-chemical principles. For this reason a foundation in physics, chemistry and mathematics as well as in biology is essential for advanced work in physiology. General physiology bears a relation to medicine similar to that of physics to engineering and in recent years has developed rapidly as a fruitful field of investigation.

COURSES IN BIOLOGY*

1. PRIMARILY FOR UNDERGRADUATES

11. General Biology. An introduction to the fundamental principles and problems of biology. Indivisible course.

Open to freshmen.

Four hours, through the year. M. W. F., 11; W., 2.

MR. POTTER AND MR. POMERAT

12. Vertebrate Zoölogy. A study of the morphology of the vertebrates from a comparative standpoint which traces the evolution of animals from fish to mammals. Lectures and laboratory work.

Four hours, through the year. W. F., 9; W. F., 2. MR. POMERAT

13. Seminar in General Biology. Credit is not given for this course. All Students in the department are invited to attend and to participate.

STAFF OF THE DEPARTMENT

14. Botany. First semester, morphology and taxonomy of the lower plants. The laboratory work consists of a critical study of types from the most important natural families.

Second semester, systematic botany of the higher plants.

Prerequisite, Biology 11, first semester.

Four hours, through the year. Tu. Th. S., 11; Th., 2. MR. POTTER

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*See footnote, p. 61.

[**15a. Invertebrate Zoölogy.** A detailed study of the structure, life history, habits, and distribution of invertebrate types. Two lectures and two laboratory periods per week.
Four hours, first semester. MR. POMERAT]

16b. Histology. A comprehensive course dealing with tissue structure. Emphasis is placed on the study of mamalian tissues. Two lectures and two laboratory periods per week.
Four hours, second semester. MR. POMERAT

[**17b. Embryology.** A consideration of the fundamentals of embryology. Two lectures and two laboratory periods per week.
Three hours, second semester. MR. POMERAT]

160. Microscopical Technique. The principles of fixing, sectioning and staining tissues will be worked out in the laboratory.
Hours and credit to be arranged. MR. POTTER

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

Biology 200. General Physiology. Open to students who have passed Biology 11 and 12a or their equivalents and who satisfy the instructor as to their preparation in physics, chemistry and mathematics. Chemistry 11, Physics 11, and Mathematics 11, or their equivalents are prerequisite. Chemistry 19, second half, is advised.

The course is designed to give the student an acquaintance with the major problems of physiology. The nature of living substance is considered in terms of its component materials and their physico-chemical properties. Three lectures and two laboratory periods per week.

To be given as a double course in 1934–35. Equivalent to two courses.
Five hours, through the year. M. W. F., 11, and laboratory periods.
MR. HOAGLAND

201a. Parasitism. A general introduction to the parasitic habit as exhibited by bacteria, fungi, protozoa, worms, and insects. Two lectures and two laboratory periods per week.
Four hours, first semester. MR. POMERAT

[**202b. Genetics.** An introduction to the principles of genetics.
Three hours, second semester. MR. POTTER]

203. Special Problems. Advanced semi-independent study of an approved topic under the direction of a member of the staff.
Hours and credit to be arranged. STAFF OF THE DEPARTMENT

205. Seminar in Experimental Biology. Credit is not given for this course. All students in the department are invited to attend and to participate. STAFF OF THE DEPARTMENT

Psychology 202. Sense Organ Functions. (For description, see announcement of Department of Psychology.)
Two hours, alternate years. MR. GRAHAM

Psychology 203. Reflex Activity. (For description, see announcement of Department of Psychology.) MR. GRAHAM

Psychology 206. Animal Behavior. (For description, see announcement of Department of Psychology.) MR. HUNTER

Psychology 207a. The Learning Process. (For description see announcement of Department of Psychology.) MR. HUNTER

3. PRIMARILY FOR GRADUATE STUDENTS

306. Mechanisms of Reaction (**seminar**). Mechanisms underlying the behavior of organisms are considered from the standpoint of experimental physiology.

Two hours, through the year. MR. HOAGLAND

307. Readings in Physiology. Open to candidates for the doctorate in physiology. Reading and tutorial conferences on special topics. Credit to be arranged. MR. HOAGLAND

308. Research. Dynamics of Vital Phenomena. Credit to be arranged. MR. HOAGLAND

Psychology 305. Research in Animal Behavior and Sensory Physiology. (For description, see announcement of Department of Psychology.) MESSRS. HUNTER AND GRAHAM

Psychology 315. Quantitative Interpretation of Experimental Data. (For description, see announcement of Department of Psychology.) MR. GRAHAM

DEPARTMENT OF CHEMISTRY

PROFESSOR MERIGOLD, PROFESSOR WARREN, ASSOCIATE PROFESSOR BULLOCK

Courses in chemistry fall into two groups:

First, those primarily for undergraduates. They furnish a foundation for professional work in chemistry or medicine, and are suitable for students desiring some knowledge of the subject as part of their general education.

Second, those, primarily for graduates, leading to advanced degrees.

UNDERGRADUATE WORK

Students who intend to become professional chemists or to study for an advanced degree in chemistry should *major* in chemistry and *minor* in physics, or take at least two years' work in that subject.

They are advised to conform as closely as possible to the schedule given below.

First year: Chemistry 10 or 11; Mathematics 10 or 11; English 11; social science (Division B) and foreign language.

Second year: Chemistry 13 and 14; Physics 11; English; Fine Arts; and a continuation of work in foreign language.

Third year: Chemistry 15, 110, and 19; Mathematics 101 or 12; an elective.

Fourth year: Five courses, chosen from the following: Chemistry 214, 215, and 208; Physics 14 and 15; an elective. A choice, with reference to future work, should be made after consultation with the chemistry staff.

Those students who intend to enter the field of secondary education should acquaint themselves with the requirements in "education" of state and local licensing boards and prepare to meet these requirements. This may necessitate the omission of certain courses in chemistry scheduled for the third and fourth years.

Students intending to study medicine should consult the statement regarding pre-medical training in the announcement of the Department of Biology.

Attention is called to laboratory fees and breakage deposits listed under the general heading "Laboratory Fees and Deposits."

GRADUATE WORK

The Department of Chemistry provides graduate students with training in the fundamental principles of chemistry sufficiently broad to prepare them adequately for a scientific career.

Requirements for advanced degrees cannot be met merely by pursuing a course of studies or by carrying on an investigation. Hence no definite course of graduate studies is outlined. Ordinarily, completion of the program outlined above will be a prerequisite for graduate work in chemistry.

Students registered for advanced degrees are expected to spend not less than eighteen hours per week in the laboratory. This may include special laboratory work in organic, inorganic, and physical chemistry.

Graduate scholarships and fellowships are available to students in this department.

COURSES IN CHEMISTRY*

1. Primarily for Undergraduates

10. Elementary Chemistry. Intended primarily for students who have not previously studied chemistry. Equivalent to course 11 as preparation for advanced courses. Divisible only by consent of the instructor.

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*See footnote, p. 61.

Open to freshmen who have not studied chemistry in high school.

Four hours, through the year. Tu. Th. S., 9; Th., 2. MR. BULLOCK

11. General Chemistry. Chiefly inorganic. Systematic study of the elements and their principal compounds, and the fundamental laws and theories of chemistry. Three lectures, and three hours of laboratory work per week.

Open to freshmen who have studied chemistry in high school.

Four hours, through the year. M. W. F., 11; M., 2. MR. MERIGOLD

13. Qualitative Analysis, Basic and Acid. Chiefly laboratory work, nine hours per week. Occasional lectures, and recitations upon the theories involved. Prerequisite, course 11 or its equivalent.

Three hours, through the year. Tu. F., 2. MR. BULLOCK

14. Quantitative Analysis. Chiefly laboratory work, with occasional lectures, recitations, and problems. Six hours of laboratory work, and one lecture per week. Prerequisite, course 13.

Three hours, through the year. Tu., 3:30; Th., 2. MR. MERIGOLD

15. Elementary Organic Chemistry. Lectures on the fundamental principles of organic chemistry. Prerequisite, course 11 or its equivalent Course 13 is also recommended.

Three hours, through the year. M. W. F., 8. MR. WARREN

19. Elementary Physical Chemistry. Lectures, recitations and problems on the theoretical aspect of chemistry including gases, liquids, solids, solutions and equilibria. Prerequisite, Chemistry 13.

Three hours, through the year. Tu. Th. S., 10. MR. BULLOCK

110. Organic Synthesis and Analysis. Laboratory work in the preparation of typical organic compounds. Course 110 should be taken, if possible, in connection with course 15. Nine hours of laboratory work per week. Open only to students who take or have taken courses 13, 14 and 15.

Three hours, through the year. M. Th., 2. MR. WARREN

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

208. Physical and Inorganic Chemistry. Lectures and laboratory work, nine hours per week. Prerequisites, Mathematics 101 or 12, Chemistry 14 and 19. Required for advanced degrees in Chemistry.

Three hours, through the year. F., 2, and additional hours to be arranged. MR. BULLOCK

212b. History of Chemistry. Outline of the historical development of the science, and the relation of chemistry to other sciences at various periods of development. Lectures, collateral reading, reports and thesis. Open to graduate students and seniors who take or have taken Chemistry 15 and 19 or equivalent courses.

Three hours, second semester. Tu. Th., 11. MR. MERIGOLD

214. Advanced Quantitative Analysis (including gas analysis). Prerequisite, course 14. Lectures and laboratory work, nine hours per week.

Three hours, through the year. Tu. Th., 2. MR. MERIGOLD

215. Advanced Organic Synthesis. The preparation of more difficult organic compounds. Prerequisite, course 110.

Three hours, through the year. M. Th., 2, and an additional laboratory period. MR. WARREN

216. Journal Reading. Practice in reading current chemical literature.

Two hours, through the year. Tu. F., 4. MR. WARREN

[**217. Intermediates and Dyestuffs.** Methods of preparation, properties and uses of the commoner intermediates followed by a study of typical dyestuffs. Lectures, collateral reading, reports and thesis. Open to graduate students and undergraduates who take or have taken course 15.

Three hours, through the year. MR. BULLOCK]

3. PRIMARILY FOR GRADUATE STUDENTS

32. Advanced Theoretical Chemistry. Discussion of the principles underlying the transformation of matter and of the conditions for equilibrium in various systems.

Three hours, through the year. Tu. Th. F., 9. MR. MERIGOLD

33. Advanced Organic Chemistry. Lectures on selected subjects in organic chemistry.

Two hours, through the year. Tu. Th., 8. MR. WARREN

35. Seminar. Staff and graduate students. Reports on research work being carried on in the laboratory and report and discussion of recently published work in related fields.

Once a week, through the year. W., 5. STAFF OF THE DEPARTMENT

314. Research in Physical and Inorganic Chemistry. MR. MERIGOLD

315. Research in Organic Chemistry. MR. WARREN

318. Research in Organic and Physical Chemistry. MR. BULLOCK

DEPARTMENT OF ECONOMICS AND SOCIOLOGY

PROFESSOR BRANDENBURG, ASSOCIATE PROFESSORS MAXWELL AND LUCAS, ASSISTANT PROFESSOR BARNES

The first aim of the department is to give students some systematic knowledge of the organization and functions of our economic and social order. But this cultural objective is not exclusive. Many of the courses in economics have a vocational aspect and should receive the attention of students looking forward to business or professional careers.

The courses in sociology provide training in the fundamental concepts and methods of the science and lead the student toward the solution of problems faced by every citizen in his social relationships. They aim to stimulate appreciation by the student of the work of specialists in many fields and of their contributions to problems of human welfare.

Economics 11 is a prerequisite to all other courses in economics, with the possible exception of Economics 14a and 14b, and is required of all majors in the department. Sociology 11 is a prerequisite to further work in sociology. The more advanced courses in the department are alternated so as to permit wider election by upper-classmen. Undergraduates majoring or minoring in the department are urged to take the introductory course in their sophomore year.

GRADUATE WORK

The department regularly offers courses leading to the master's and doctor's degrees. Students expecting to enter upon advanced work should have creditably mastered basic courses in the field equivalent at least to the ordinary undergraduate *major*, i.e., twenty-four semester hours; those whose preparation is inadequate should expect to make good the deficiency before proceeding to study for a higher degree.

A sufficient range of courses will be offered in cycles of two or three years so that graduate students may be adequately prepared for candidacy for the doctorate in this department. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work; undergraduate students in courses of the intermediate group will be expected to do work of substantially graduate caliber.

Fellowships, scholarships, and other aids are available to students in the department; also a limited number of assistantships, carrying a modest stipend, are awarded to worthy students.

Attention is directed to closely allied courses offered in geography, history and international relations, and psychology.

COURSES IN ECONOMICS*

1. Primarily for Undergraduates

10. Social Science Survey. An introduction to methods and materials of the social sciences preparatory to later work in these fields.
Indivisible course.
For freshmen; others will receive reduced credit.
Three hours, through the year. M. W. F., 9. Mr. Brandenburg

11. Principles of Economics. An introduction to the fundamental economic principles, together with a study of the practical application of these principles in the problems of American life. Economics 10 is desirable but not required as a prerequisite.
Indivisible course.
Three hours, through the year. Tu. Th. S., 10. Mr. Lucas

13. Money, Banking, and the Business Cycle. Indivisible course.
Three hours, through the year. M. W. F., 9. Mr. Maxwell

[**14a. Economic History of Western Europe since 1700.**
Three hours, first semester. M. W. F., 10. Mr. Maxwell]

[**14b. Economic History of the United States.**
Three hours, second semester. M. W. F., 10. Mr. Maxwell]

15a. Public Finance.
Three hours, first semester. M. W. F., 10. Mr. Maxwell

16b. Economic Statistics. Primarily for students of Economics and Sociology.
Three hours, second semester. M. W. F., 10. Mr. Maxwell

117. Principles of Accounting. The organization and use of financial records, with emphasis on their interpretation rather than on the technique of procedure.
Indivisible course.
Three hours, through the year. Tu. Th., 11; Th., 2–4. Mr. Lucas

18. Business Organization and Business Finance. A unified year's work in the structure of modern industry, the financial practices of corporations, and the problem of social control. The second half of this course is open only to students who have completed the first half.
Three hours, through the year. Tu. Th. S., 9. Mr. Lucas

2. For Graduate Students and Advanced Undergraduates

22. Labor Problems.
Three hours, through the year. M. W. F., 11. Mr. Brandenburg

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*See footnote, p. 61.

[**210a. Economic and Social Reform.** The historical and critical study of various programs. Prerequisite, Economics 14.
Three hours, first semester. M. W. F., 11. MR. BRANDENBURG]

[**211b. Contemporary Reform Movements.** A continuation of Economics 210a into special fields for selected students. Prerequisite, Economics 210a.
Three hours, second semester. M. W. F., 11. MR. BRANDENBURG]

[**25b. Problems in Public Finance.** Prerequisites, Economics 13 or 15b.
Three hours, second semester. MR. MAXWELL]

[**27a. International Trade and International Finance.** The nature, theoretical basis, methods of financing, and governmental control of the international movement of goods. Economics 13 desirable.
Three hours, first semester. Tu. Th. S., 11. MR. LUCAS]

28. Research in Selected Economic Problems. Limited enrollment; consent of the instructor required.
Credit and hours to be arranged. MR. LUCAS

[**29b. Economics of Transportation.** History and present status of rail, water, and highway transport; rate-making; public regulation, government operation, and chief problems of the present.
Three hours, second semester. Tu. Th. S., 9. MR. LUCAS]

3. PRIMARILY FOR GRADUATE STUDENTS

31. International Economic Policies.
Two hours, through the year. M., 7–9. MR. BRANDENBURG

[**38a. History of Economic Thought to the End of the 18th Century.**
Three hours, first semester. M. Th., 4:30–6. MR. MAXWELL]

[**38b. Modern Economic Thought.** Attention will be given rather to the history of thought than to analytical criticism of specific doctrines.
Three hours, second semester. MR. MAXWELL]

39. Value and Distribution.
Three hours, through the year. M. W., 4–5:30. MR. MAXWELL

311. Seminar in Economics and Sociology. Fortnightly round-table on investigations by members of the Seminar. Occasional outside speakers. All graduate students in the department are expected to attend.
Second and fourth Thursdays of each month at 7:30.
THE STAFF OF THE DEPARTMENT

COURSES IN SOCIOLOGY*

The introductory course, Sociology 11, or equivalent is prerequisite to all other courses in sociology. Following Sociology 11 is a group of semester courses which are offered in three sequences of a first semester course followed by a course meeting at the same hour in the second semester.

Two of the three sequences of courses are offered each year, according to the following schedule.

	Offered	Omitted
Courses 21a and 21b	1933–34; 1934–35	1932–33
Courses 23a and 24b	1932–33; 1934–35	1933–34
Course 25b	1932–33; 1933–34	1934–35

1. PRIMARILY FOR UNDERGRADUATES

(See also Economics 10)

11. Principles of Sociology. Analysis of limiting and directive factors in social behavior and of the major social processes and social problems. Open to sophomores, juniors and seniors. Sociology 11, or its equivalent, is a prerequisite to all other courses in sociology. Indivisible course.

Three hours, through the year. Tu. Th. S., 8. MR. BARNES

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

(See also Economics 210b and Economics 22)

21a. The Family. The family in social evolution; its changing functions in modern urban society, resultant disorganization, and conservation measures.

Three hours, first semester. Tu. Th. S., 9. MR. BARNES

[**22b. Urban Sociology.** A study of the growth, structure, function, and control of modern cities. Individual and class investigation of local urban problems.

Three hours, second semester. MR. BARNES]

21b. Social Origins. A study of the customs and institutions of various primitive peoples with a view to a more objective understanding and appreciation of our own civilization.

Three hours, second semester. Tu. Th. S., 9.

25b. Social Pathology. Measurement and interpretation of causative factors: a brief consideration of the principal remedial and preventive aspects of treatment.

Three hours, first semester. Tu. Th. S., 11. MR. BARNES

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*See footnote, p. 61.

[**27b.** (**Education 27b**) **Educational Sociology.** The school in relation to society: evidences of cultural lag; trend toward socialization of curriculum and administration as adjustments to social change.
Three hours, second semester. MR. BARNES]

[**26b. Criminology.** A study of criminal behavior: its extent, nature, causation, treatment. Field trips and individual investigations.
Three hours, second semester. MR. BARNES]

3. PRIMARILY FOR GRADUATE STUDENTS

(See also Economics 311)

[**31a. History of Social Thought to 1860.** A critical study (both chronological and topical) of the more important social theorists from the dawn of history to Charles Darwin.
Three hours, first semester. MR. BARNES]

[**31b. Survey of Sociological Theory Since 1860.** A critical evaluation and comparison of outstanding contributions to sociology from Darwin to the present.
Three hours, second semester. MR. BARNES]

[**32. Sociology Seminar.** Intended for students of graduate standing working on research projects. Credit granted on basis of work done.
MR. BARNES]

COURSES IN EDUCATION

FACULTY COMMITTEE ON COURSES IN EDUCATION

ASSOCIATE PROFESSOR JONES, *Chairman*, PROFESSOR CHURCHMAN,
PROFESSOR RIDGLEY, ASSOCIATE PROFESSOR ILLINGWORTH

By vote of the Faculty a standing committee on "courses in education" has been established to "enlarge the number of courses offered in that field and to assume the administrative responsibility that a department would have in the conduct of such work, with the understanding that the committee is responsible to the Faculty." In organizing such courses the committee has two objectives in mind: first, to offer courses from which undergraduate students who plan to enter the teaching profession may elect up to 18 semester hours in the field of education; second, to offer courses to meet the needs of graduate students who are preparing for teaching.

COURSES FOR UNDERGRADUATES

Following the general principle that college students who are preparing to enter the teaching profession should secure a thorough background in the subjects which they expect to teach before they enter professionalized courses in education, the committee has ruled that the completion of two years of college work be a prerequisite for all the courses in education listed below. Twelve semester hours of credit in the subject involved is a prerequisite for all special-methods courses. (Additional prerequisites are stated in certain courses.) These special methods courses are given by specialists in the various subject matter fields; this practice conforms with the committee's view that methods of teaching a subject must be taught in connection with the content in that subject. In addition to the special methods courses, foundation courses are offered in as many of the different content-fields in education as possible.

The first five courses listed below should be considered as giving a general background for other more specialized courses in the field of education. A student expecting to elect only one or two courses in education should in general limit his choice to this group. A student expecting to elect twelve or more semester hours in education should include in his program three or more courses from this group.

COURSES FOR GRADUATE STUDENTS

Certain courses in education are open to graduate students of various departments. The Graduate Board has ruled that a graduate student who is definitely preparing to teach in secondary schools may, with the approval of his major department, elect one or two courses in education which may count toward the course requirement for a master's degree. All of the courses announced below, with the exception of course 17b, are open under this regulation to properly qualified graduate students.

COURSES IN EDUCATION*

Education 14a (Psychology 14a). Educational Psychology. A study of psychology as it bears upon the problems of education.
Three hours, first semester. W. Th. F., 12. MR. JONES
(In 1934–35, W., 11–12:45; F., 11–12.)

Education 15b (Psychology 15b). Individual Differences and Exceptional Children. The course will include a study of the bright, the dull, the psycho-neurotic, and the delinquent child. (Graduate students may register for two hours' credit, and attend only the Saturday meetings.)
Three hours, second semester. Th., 11–12; S., 11–12:45. MR. JONES

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*See footnote, p. 61.

CLARK UNIVERSITY BULLETIN

MBER 104 JUNE, 1933

COURSES IN EDUCATION

FOR THE
ACADEMIC YEAR OF
1933-1934

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COURSES IN EDUCATION
FOR THE
ACADEMIC YEAR OF 1933-1934

Clark University from the date of
founding has taken an active interest
the training of educators. The pioneer wo
of G. Stanley Hall in child study and that
William H. Burnham in mental hygiene plac
Clark among the first universities in Ameri
to become interested in the problems of t
teacher and the learner as suitable ones f
scientific study. Thus there grew up, alo
with the older fields of study such as chemistr
physics, history, geography, and the like, t
Department of Psychology which has center
its attention upon the study of behavior in i
many forms. Every year graduates from the
departments have gone into a variety of teac
ing positions ranging from that of supervis
or teacher in the elementary school to that
professor in normal school, college, and unive
sity.

In its rather wide experience in the traini
of educators, Clark has always held to t
principle that a teacher must first of all be
scholar in the field in which he is to teac
It is encouraging to see that this view is sprea
ing among superintendents of schools ar
Boards of Education, at least in New Englan
It is also encouraging to see in the Universi
a sentiment growing in the majority of the d
partments to the effect that something mo
than mastery of subject-matter is needed

the preparation of teachers, at least for positions below the college level.

In consequence of the increased appreciation, on the part of the undergraduate and graduate departments at the University, of professional courses in Education in addition to thorough grounding in the subjects to be taught, the Faculty voted in 1932 to appoint a standing committee on Courses in Education. The duty of this committee was "to enlarge the number of courses offered in the field of Education, and to assume the administrative responsibility that a department would have in the conduct of such work, with the understanding that the Committee is responsible to the Faculty."

In organizing such courses the Committee has kept in mind the needs of (1) undergraduate and graduate students without teaching experience who are preparing to enter the profession, and (2) experienced teachers holding baccalaureate degrees who wish to extend their training by full or part-time study. It is for this latter group especially that this bulletin has been prepared.

Organization of Courses Leading to a Master's Degree

To meet the needs for work in Education he University has not deemed it wise to set up separate department, but rather to encourage he evolving of a plan of co-operation between he Committee on Courses in Education and ertain interested departments such as those of history, geography, chemistry, and ec nomics-sociology. Students who are interest in pursuing study to the Master's degree wi work in Education should plan to major one of the regularly established department and elect a minor of from 6 to 12 semest hours in Education.

A plan has been worked out between t Committee on Courses in Education and t majority of the graduate departments in t university whereby this can be done. The c operative arrangement is somewhat differe for different departments, and therefore t requirements in each department will be pr sented separately.

REQUIREMENTS IN THE VARIOU MAJOR DEPARTMENTS WHICH AR ACCEPTING EDUCATION COURSES TOWARD THE M.A. DEGREE

The full requirements and prerequisites the various departments cannot be given he but some indication can be given as to t number of semester hours that will be requir and the amount of Education which may counted toward the degree. Prospective st dents who desire further information abo the courses and requirements in the depa ments should write to the Recorder of t University for a general Catalogue. In ad tion to the course requirements given below, will be necessary for the student to prepare cceptable thesis and pass whatever general xamination his department may require.

Department of Chemistry. Properly quali- ed students applying to this Department hrough the Committee on Courses in Educa- ion will be required to complete 24 semester ours of work beyond the Bachelor's degree. ix hours of this may be taken in Education. his requirement will, of course, be increased n the case of students who cannot satisfy all rerequisites for courses which they wish to nter.

Department of Economics and Sociology. andidates for the Master's degree in this De- artment must offer a minimum of 21 semester ours beyond the Bachelor's degree. A aximum of 10 semester hours in Education ay be counted toward this course require- ent. Failure to meet the prerequisites for ny courses will obviously serve to increase the mount of work required.

Department of Geography. Students who ome adequately prepared to enter the Grad- ate School might normally expect to complete n two years the work for the Master's degree ith a major in Geography and a minor in ducation, including as much as 12 hours in ducation.

Department of History and Interna- ional Relations. Candidates for the Master's egree in this Department must offer a inimum of 18 semester hours beyond the achelor's degree. The Department will accept a maximum of 6 semester hours of work in Education as a part of the course requirements. Failure to meet the prerequisites for any courses will obviously serve to increase the amount of work required.

The Department of Biology invites correspondence from properly qualified students who may wish to major in that Department.

Time of Meeting for Classes in Major Departments. The schedule for all classes is given in the general Catalogue of the University and need not be repeated here. A copy of the Catalogue may be obtained from the Recorder upon request. In the case of students who wish to do their work, or the major part of it, in afternoon and Saturday classes, it is suggested that they submit to the Chairman of the Committee on Courses in Education a tentative program of courses which they wish to offer for the degree and he will submit these to the various Departments for their consideration. Where there is sufficient demand for a course in the late afternoon or Saturday, it will be possible in certain cases to schedule it at that time, especially a course marked "hours to be arranged."

ADMISSION REQUIREMENTS TO THE GRADUATE SCHOOL

Eligibility. Admission is granted only by the Graduate Board on the recommendation of a department. A graduate of more than average ability from a college or university which is on the approved list of the Association of American Universities is eligible for admission s a regular graduate student. A graduate of uperior attainments from a four-year college not on the list is normally eligible for admission as a special graduate student for a specified period. A special graduate student may be admitted by the Graduate Board to regular graduate standing after a semester, or its equivalent, of study and upon the recommendation of his major department.

Application. A prospective student should write to the Recorder for an application blank. This blank should be filled out and sent to the Committee on Courses in Education. A recent photograph (passport size preferred) should accompany the application. A definite statement should be made by the prospective student as to whether or not he plans to do full-time residence work for all or part of the residence period or whether he plans to do all his work on a part-time basis. If he proposes to do any part-time work he should state the hours which he plans to devote to university study. Application should be in by September 24 for first semester courses and by February 3 for second semester courses.

Admission. Admission will be determined by the Graduate Board's estimate of the applicant's general preparation and his plan for study. Acceptance into the graduate school does not, of course, imply in any way admission to candidacy for a degree. The latter is dependent upon the class-work and research done in the University.

Fees. The tuition for full-time students in the University is $200.00 per year. In addition to this all students are required to pay a matriculation fee of $5.00. Students carrying small programs are charged at the rate of $10.00 per semester hour of course credit.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

Students who have been regularly admitted to the Graduate School, or others who have met all special requirements imposed by the Graduate Board, are eligible for the degree of Master of Arts if and when the following requirements are met: (1) The satisfactory completion of all course requirements imposed by the major department; (2) The preparation of an acceptable thesis; and (3) The passing of a final oral examination of approximately one hour's duration.

It is important for students primarily interested in Education to note that since the Education courses are not organized into a Department, it is impossible to elect Education as a major. However, it is believed that the needs of many students can be met by the cooperative arrangement which has been made with various departments whereby a liberal amount of work in Education may be taken as a minor. In general it is recommended that students interested in school administration should major in finance and taxation or socio-economic problems in the Department of Economics. Those interested in teaching or supervising certain subjects in the elementary or secondary school should major in the subject to be taught or supervised.

COURSES IN EDUCATION

(Any of the following courses are accepted for graduate credit except Education 17b and 119a.)

Education 14a. *Educational Psychology.* A study of psychology as it bears upon the problems of education. *Three hours,* first semester. W. Th. F., 12. Professor Jones

Education 15b. *Individual Differences and Exceptional Children.* The course will include a study of the bright, the dull, the psychoneurotic, and the delinquent child. *Three hours,* second semester. Hours of meeting to be arranged. This may be given in late afternoon if there is sufficient demand for such an hour. Professor Jones

Education 16a. *Principles of Education.* A survey of the aims, responsibilities, and general methods in education. *Three hours,* second semester. Hours to be arranged. Professor Jones

Education 17b. *Philosophical and Historical Foundations of Modern Education.* (Primarily for undergraduates) *Three hours.* Given in alternate years. Omitted in 1933-34. Professor Jones

Education 19a. *Psychology of Character.* Psychological and educational principles applied to character and citizenship training. (Graduate students may register for two hours of credit attending only the two-hour meetings on Saturdays.)

Three hours or *two hours,* first semester. To be offered in 1933-34 and in alternate years. Th., 11-12; S., 11-12:45. Professor Jones

Education 101a. *The Teaching of Modern Languages.* A study of the major problems in the teaching of French. Incidental references will be made to German and Spanish. Prerequisite, third year college French or German course, taken previously or at the same time.
Three hours, first semester. To be offered in 1933-34 and in alternate years. Hours to be arranged. The class will be scheduled in the late afternoon if there is sufficient demand for such an hour. Professor Churchman

Education 144a. *The Teaching of English.* Methods of teaching poetry, drama, novel, short story, essay, oral and written composition. Prerequisite, at least 12 semester hours of English on the college level.
Three hours, first semester. Hours to be arranged. Can be scheduled in late afternoon and Saturday morning if there is sufficient demand for such hours. Professor Illingworth

Education 119a. *Geography in Junior High School Education.* An analysis of the organization and administration of junior high school curricula. The place of geography in the social studies program.
Three hours, first semester. Tu. Th. S., 9.
Professor Ridgley

Education 29b. *Geography in Education.* A survey of geography in present-day American school systems. Prerequisite, geography courses totaling 18 hours.
Three hours, second semester. Tu. Th. S., 8.
Professor Ridgley

Education 313a. *Advanced Educational sychology: Statistical Methods.*
wo hours, first semester. Tu., 4:20-6:00.
Professor Jones

Education 314b. *Advanced Educational Psy- hology: Tests and Measurements.*
wo hours, second semester. Tu., 4:20-6:00.
Professor Jones

Date of Registration

The date of registration for first semester ourses is September 26; that for second emester courses is February 5. Application or admission must be in two days before the egistration date.

Inquiries

All inquiries and application for admission hould be sent to the Chairman of the Com- ittee on Courses in Education.

PHILIP H. CHURCHMAN
ROBERT S. ILLINGWORTH
DOUGLAS C. RIDGLEY
VERNON JONES, *Chairman*

Committee on Courses in Education

Education 16b (Psychology 16b). Principles of Education. A survey of the aims, responsibilities, and general methods in education.
Three hours, second semester. W. Th. F., 12. MR. JONES
(In 1934–35, W., 11–12:45; F., 11–12.)

[**Education 17b (Psychology 17b). Philosophical and Historical Foundations of Modern Education.** A study of the rise and philosophical bases of modern educational policies and practices.
Three hours, second semester. W., 2–4, Th., 2–3. MR. JONES]
To be omitted in 1934–35.

Education 19a (Psychology 19a). Psychology of Character. A survey and critical evaluation of the experimental evidence in the field and its application to education for character and citizenship. (Graduate students may register for two hours' credit and attend only the two hour meeting on Saturday.)
Three hours, first semester. Th., 11–12; S., 11–12:45. MR. JONES

Education 101a (French 101a). The Teaching of Modern Languages. A study of the major problems in the teaching of French. Incidental references will be made to German and Spanish. Prerequisite, third-year college French or German course, taken previously or at the same time.
Three hours, first semester. Tu. Th. S., 11. MR. CHURCHMAN
(In 1934–35, W., 4:20 to 6.)

Education 144a (English 144a). The Teaching of English. Methods of teaching poetry, drama, novel, short story, essay, oral and written composition. Prerequisite, at least 12 semester hours of English on college level.
Three hours, first semester. M. W. F., 10. MR. ILLINGWORTH
(In 1934–35, M., 4:20 to 6.)

[**Education 27b (Sociology 27b). Educational Sociology.** The school in relation to society; evidences of cultural lag; trend toward socialization of curriculum and administration as adjustments to social change. Prerequisite, Sociology 11.
Three hours, second semester. Hours to be arranged. MR. BARNES]

Education 119a (Geography 119a). Geography in Junior High School Education. An analysis of the organization and administration of junior high school curricula. The place of geography in the social studies program.
Three hours, first semester. Tu. Th. S., 9. MR. RIDGLEY
To be omitted in 1934–35.

Education 29b (Geography 29b). Geography in Education. A survey of geography in the present-day American school system, including elementary and secondary schools, teacher-training institutions, colleges and universities. Prerequisite, geography courses totaling at least 12 semester hours.
Three hours, second semester. Tu. Th. S., 8. MR. RIDGLEY

Education 313a (Psychology 313a). Advanced Educational Psychology: Group Methods of Experimentation. The purpose of the course will be primarily to give practice in the most valuable statistical methods for psychological experimentation.
Two hours, first semester. Tu., 4:20. MR. JONES

Education 314b (Psychology 314b). Advanced Educational Psychology: Tests and Measurements. A systematic and critical survey of psychological and educational tests. Both theoretical and applied aspects of testing will receive consideration.
Two hours, second semester. Tu., 4:20. MR. JONES

DEPARTMENT OF ENGLISH

PROFESSOR AMES, PROFESSOR DODD, ASSOCIATE PROFESSOR ILLINGWORTH, MR. SEWALL

Prescribed work in English consists of English 11, required of all freshmen, and 6 additional semester hours of English literature or composition, to be completed by the end of the junior year. A *major* in English consists of twenty-four semester hours, exclusive of English 11. A *minor*, of eighteen semester hours, exclusive of English 11.

The Appreciation of the Fine Arts, given by Professor Dodd, is a requirement for all students, to be completed in either the freshman or the sophomore year. This course is not counted in fulfillment of requirements in English.

THE PRENTISS CHENEY HOYT PRIZE IN POETRY

A prize of fifteen dollars is awarded annually by the Department of English for the best poem by an undergraduate. This is the interest on a fund established by the alumni as a memorial to Prentiss Cheney Hoyt, Professor of English at Clark University from 1909 to 1920.

COURSES IN ENGLISH*

1. PRIMARILY FOR UNDERGRADUATES

11. English Composition. The emphasis throughout the year is on the expository form in writing. Required of freshmen.
Three hours, through the year. Tu. Th. S., 9, 10 and 11.
MR. ILLINGWORTH AND MR. SEWALL

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*See footnote, p. 61.

12a. Public Speaking. A course in the composition and delivery of speeches and practice in impromptu speaking. The aim of the course is to train the student to think logically and to speak simply and effectively when on his feet.

Three hours, first semester. M. W. F., 9. MR. ILLINGWORTH

[**13b. Shakespeare.** A general survey of Shakespeare's works, including the reading and class discussion of twenty plays. Prerequisite, English 11.

Three hours, second semester. Tu. Th. S., 10. MR. AMES]

143b. Argumentation and Debate. A systematic study of the principles and practice of argumentation.

Three hours, second semester. M. W. F., 9. MR. ILLINGWORTH

15. A Survey of English Literature. A course in English literature from its beginning to the end of the eighteenth century. Prerequisite, English 11.

Three hours, through the year. M. W. F., 10. MR. AMES

16b. English Composition. Open to students who have attained high standing in English 11.

Three hours, second semester. Tu. Th. S., 10. MR. AMES

[**18a. The Bible as Literature.** Prerequisite, English 11.

Three hours, first semester. Tu. Th. S., 10. MR. AMES]

110. Nineteenth Century Poetry. A study of English poetry from Wordsworth to Masefield. Prerequisite, English 11.

Three hours, through the year. W. F., 12. MR. AMES

111. American Literature. Readings in American Literature, from the Colonial period to the present day. The course may be elected for the year or for the first semester only.

Open to freshmen with the approval of the instructor.

Three hours, through the year. Tu. Th. S., 12. MR. AMES

[**112. The Modern Essay.** A study of English and American essays from 1820 to the present day, with appropriate collateral reading in fiction. The course may be elected for the year or for the first semester only. Prerequisite, English 11.

Three hours, through the year. Tu. Th. S., 12. MR. AMES]

[**113a. Modern English Drama.** A study of contemporary English dramatists.

Open to freshmen.

Three hours, first semester. MR. DODD]

[**114b. Elizabethan and Restoration Drama.** The plays by Shakespeare's distinguished contemporaries and his successors of the Restoration.

Three hours, second semester. Tu. Th. S., 9. MR. DODD]

[**121a. Biography and Letters.** The biography, autobiography and correspondence of distinguished authors, painters and sculptors, from the eighteenth century to the present. This course is open only to upper classmen who are proficient in English.
Three hours, first semester. M. W. F., 9. MR. DODD]

122b. Modern Poetry. A study, in representative contemporary poets, of the new tendencies in verse. Opportunity is afforded for original verse composition. Open only to upper classmen who are proficient in English.
Three hours, second semester. Tu. Th. S., 9. MR. DODD

124a. American Drama. A study of the American drama from colonial times to the present.
Open to freshmen.
Three hours, first semester. M. W. F., 9. MR. DODD

125a. The Short Story. Representative short stories in English and American literature.
Open to freshmen.
Three hours, first semester. Tu. Th. S., 9. MR. DODD

[**126b. Modern Continental Drama.** A companion course to Modern English Drama.
Three hours, second semester. M. W. F., 9. MR. DODD]

142b. The Modern Novel. A study of the novel from the beginning of the twentieth century to and including the present year.
Three hours, second semester. M. W. F., 10. MR. ILLINGWORTH

140. Appreciation of Literature. Literary interpretation and intensive analysis of prose, poetry, and dramatic forms.
Three hours, through the year. M. W. F., 9. MR. ILLINGWORTH

144a (Education 144a). The Teaching of English. Methods of teaching poetry, drama, novel, short story, essay, oral and written composition. Prerequisite, at least twelve semester hours of English on college level.
Three hours, first semester. M. W. F., 10. MR. ILLINGWORTH
(In 1934–35, M., 4:20–6.)

FINE ARTS

1b. Fine Arts. A course in the appreciation of painting, sculpture and architecture. Illustrated lectures, assigned readings, field trips. This course is not counted in fulfillment of the requirement in English.
Three hours, second semester. M. W. F., 9. MR. DODD

DEPARTMENT OF GEOGRAPHY

A complete statement of the aims and the scope of the courses in geography and the related subjects, physiography, meteorology and climatology, will be found in the announcement of the Graduate School of Geography.

SPECIAL COURSE IN FINE ARTS

Course to be given at the WORCESTER ART MUSEUM, open to ten or twelve men in Clark University who have completed Professor Dodd's course in Fine Arts and who are recommended by him. This course will be accepted for credit toward the A.B. degree in Clark University.

FINE ARTS AND CIVILIZATION, II. First semester. Mr. McDonald, Lectures Mondays and Wednesdays at 3 P.M. Junior standing required.

The painting and sculpture of the Renaissance and Baroque periods in Italy, Spain, France and the Low Countries will be presented as illustrative of the cultural revolution of the 15th, 16th and 17th centuries. The course will include lectures on the philosophy and literature of the period as well as on the historical background. The contrast between the Northern and the Italian Renaissance will be emphasized.

September 26, 1933

BULLETIN OF THE

WORCESTER ART MUSEUM

VOLUME XXIV SUMMER, 1933 NUMBER 2

EDUCATIONAL PROGRAM
AND CALENDAR OF EVENTS

SATURDAY MORNING SKETCH CLASS

MODERN PAINTING

Mr. Cott

The history of painting in Europe from the French Revolution to the present day with special consideration of the significant movements in France including Classicism, Romanticism, Impressionism, and Post-Impressionism. Six lectures. (*Open to the public. Free.*)

Given in the Lecture Hall Friday mornings at 11 o'clock.

January 19
January 26
February 2
February 9
February 16
February 23

THE ART OF THE RENAISSANCE

Miss Campbell

An introduction to the history and civilization of Europe from the end of the Hundred Years' War, with special attention to the schools of painting and sculpture in Italy, France, Spain and the Low Countries. This course is especially recommended for teachers in secondary schools. Twelve lectures. (*Open to the public. Free.*)

Given in the Lecture Hall Friday afternoons at 4 o'clock.

January 5
January 12
January 19
January 26
February 2
February 9
February 16
February 23
March 2
March 9
March 16
March 23

ORIENTAL ART

Mr. Cott

A brief survey of the major trends and influences in the Far East. The subject will be treated from a general point of view emphasizing the philosophical and religious background in the art and history of India, China, and Japan. Three lectures. (*Open to the public. Free.*)

Given in the Lecture Hall Friday mornings at 11 o'clock.

April 6
April 13
April 20

HISTORIC ART AND ARCHITECTURE OF NEW ENGLAND

Miss Dresser

A study of the social background as illustrated in the architecture, painting, and domestic arts of New England during the seventeenth, eighteenth, and nineteenth centuries. Two lectures. (*Open to the public. Free.*)

Given in the Lecture Hall Friday afternoons at 4 o'clock.

November 17 November 24

RESTRICTED COURSES FOR UNIVERSITY CREDIT

(*Not open to the public*)

The following courses are offered through a grant from the Carnegie Corporation. Academic credit is already given at Worcester Polytechnic Institute and Clark University. The same privileges are offered to students at Holy Cross College and Assumption College. The classes are limited to students from each institution selected by their respective deans. *Professor in charge*, A. DONALD MCDONALD, *Curator of Education.*

Spring of 1933

Repeated—Spring of 1934 on demand.

✓ ***Fine Arts and Civilization*** **I.** *Second Semester.*

MR. MCDONALD. Lectures Tuesdays, Thursdays at 3 P.M. Conference Friday at 3 P.M. Sophomore standing required.

The history of art and civilization from the earliest times to 1400 A.D. The purpose of this course is not only to acquaint the student with the monuments of Ancient and Mediaeval Art but to enable him to see these monuments as products of the culture that created them. In this connection considerable attention will be given to economic, social, cultural, and religious background.

✓ ***Architecture*** **I.** *Second Semester.*

MR. MCDONALD. Lectures Tuesday and Thursdays at 4 P.M. Conference Fridays at 4 P.M. Sophomore standing required.

Ancient and Mediaeval architecture from the earliest times to 1400 A.D. While the historical method will be used in presenting the development of Ancient and Mediaeval architecture, special emphasis will be laid upon the effect of the material employed in the resultant architectural forms, and upon the structural problems confronting the architect as seen in the monuments of the various historic styles.

Effort will be made to acquaint the student with the architectural vocabulary and to train him to approach the study of a building from the architects' point of view.

Academic Year of 1933-1934

Fine Arts and Civilization II. *First Semester.*

Mr. McDonald. Lectures, Mondays and Fridays at 4 p.m. Junior standing required.

The painting and sculpture of the Renaissance and Baroque periods in Italy, Spain, France, and the Low Countries will be presented as illustrative of the cultural revolution of the XVth, XVIth, and XVIIth centuries. The course will include lectures on the philosophy and literature of the period as well as on the historical background. The contrast between the Northern and the Italian Renaissance will be emphasized.

Architecture II. *Second Semester.*

Dates to be announced. Junior standing required.

Renaissance and Baroque architecture both in Italy and in Northern Europe will be treated primarily from the standpoint of Architectural Design. The importance laid by the Renaissance Architect upon proportions, the harmony of relations of the various parts of the building as well as the use of ornament as a major element in architectural design will be stressed.

Academic Year of 1934-1935

Not given during the current season

Fine Arts and Civilization III. *First Semester.*

Mr. McDonald. Dates to be announced. Senior standing required.

Art and civilization from 1650 to the present day. The changing fashions in art from the classicism of Louis XIV to the Surrealism of the present day will be studied as they reflect the political and philosophical theories and social and economic conditions of the period.

Architecture **III.** *Second Semester.*

Dates to be announced. Senior standing required.

The history of Architecture from 1700 to the present time. Major emphasis will be placed upon the modern revolution in architectural theory, with special study of the work of such architects as Frank Lloyd Wright, Le Corbusier and Mies van der Rohe.

THE PROCESSES OF ART

Mrs. Katherine B. Milligan

The purpose of this course is to give opportunities to adult persons engaged in industrial and commercial activities to learn something of the technical accomplishment in objects usually found in the retail trade. It is particularly recommended for metal, ceramic, and textile workers, as well as for sales people. Illustrated by stereopticon and moving pictures. Wednesday evenings at 7:00 in the Lecture Hall. (*Open to the public. Free.*) *The Museum will be open Wednesdays until 10 p. m. from November through April.*

Techniques in the Fine Arts

Nov. 1	1. How Prints Are Made Illustrated by film *The Etcher's Art* from the Metropolitan Museum.
Nov. 8	2. The Making of a Japanese Wood Block Print; illustrated by set of wood blocks etc. in Museum collection.
Nov. 15	3. Sculpture; illustrated by films *The Making of a Bronze Statue* from Metropolitan Museum and by film *Sculpture in Stone* from the University Film Foundation.
Nov. 22	4. Painting in Fresco, Tempera and Oil; illustrated by *Childe Hassam—Artist,* film from the Metropolitan Museum.

Techniques in the Decorative Arts

Nov. 29	1. Blown Glass; illustrated by films *Glass Blowing* from the Metropolitan Museum.
Dec. 6	2. Stained and Painted Glass; illustrated by film *The Making of a Stained Glass Window* from the Metropolitan Museum.
Dec. 13	3. Hand-Wrought Silver; illustrated by films *The Silversmith* from the University Foundation.

DEPARTMENT OF GEOLOGY

PROFESSOR LITTLE

1. PRIMARILY FOR UNDERGRADUATES*

12. General Geology. A study of the origin of scenery, the classification of rocks, the structure of the earth, the geography of the past, and the evolution of life. Three recitations and one laboratory period or field trip weekly. Attendance on one out-of-town field trip lasting two days or more is required.

Indivisible course.

Four hours, through the year. M. W. F., 8; Th., 2. MR. LITTLE

The following courses are offered occasionally on special request of four or more students.

[121a. Crystallography, Mineralogy, and Blowpipe Analysis. An elementary course on the identification of minerals by their geometrical, physical and chemical properties. Two class meetings and one laboratory period weekly.

Three hours, first semester. MR. LITTLE]

[122b. Economic Geology. A study of the origin of the deposits of useful minerals and a discussion of their more important occurrences throughout the world. Elementary chemistry and geology provide a desirable preparation for this course. Two class meetings and one laboratory period weekly.

Three hours, second semester. MR. LITTLE]

DEPARTMENT OF GERMAN

PROFESSOR RANDOLPH†, ASSOCIATE PROFESSOR BOSSHARD,
MR. KORPI

The Department of German provides the necessary courses for those who wish to use this language in meeting the general requirement in foreign language, and also provides opportunity for those who wish to take this language as a *major* subject. A *major* in German consists of at least twenty-four semester hours selected from the courses announced here.

COURSES IN GERMAN*

1. PRIMARILY FOR UNDERGRADUATES

11. Elementary German. Pronunciation and grammar; composition; reading of easy prose. Indivisible course.

Open to freshmen.

Three hours, through the year. Two sections, M. W. F., 8 and 9.
MR. BOSSHARD

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*See footnote, p. 61.

†Died November 7, 1933.

12. Second Year German. Thorough review of grammar essentials, with the careful reading of several easy pieces of modern prose. A continuation of German 11.

Open to freshmen.

Three hours, through the year. Two sections, Tu. Th. S., 9 and 12.

Mr. Randolph and Mr. Korpi

13b. Advanced Reading and Composition. The object of the course is to develop further the ability to read with accuracy and ease. German 12 or its equivalent is a prerequisite.

Open to freshmen.

Three hours, second semester. M. W. F., 11. Mr. Korpi

131. Advanced Reading; Speaking and Writing. The course alternates with German 13. In addition to reading there will be daily exercises in speaking and writing German. Prerequisite, German 12 or special examination.

Open to freshmen.

Three hours, through the year. M. W. F., 11. Mr. Bosshard

14. Introduction to the Study of German Literature. Particular attention is paid to the writers of the classical period; lectures treat the history of German literature in outline from the earliest times down to the end of the eighteenth century. German 12 or its equivalent is a prerequisite.

Open to freshmen.

Three hours, through the year. Tu. Th. S., 11.

Mr. Randolph and Mr. Bosshard

[**16a. Scientific German.** Topics in geography, history, sociology and psychology. Prerequisite, German 13 or special examination.

Three hours, first semester. Mr. Bosshard]

[**16b. Scientific German.** Topics in chemistry, physics, and biology. Prerequisite as for 16a.

Three hours, second semester. Mr. Bosshard]

[**18. Practice in Speaking and Writing German.** The course is conducted in German. Prerequisite, German 13, or its equivalent.

Three hours, through the year. Mr. Bosshard]

[**191. Contemporary German Literature.** Lectures, reading. In the beginning the course is conducted in English, but in the second semester in German.

Three hours, through the year. Mr. Bosshard]

[**192a. Lyric Poetry.** A survey of German lyric poetry in its principal representatives. Prerequisite, German 12, or equivalent.

Three hours, first semester. Mr. Bosshard]

[**193b. Goethe's Faust.** A study of its genesis as it reflects the poet's own development and the evolution of literary and philosophic currents of his time, and a study of its message. Prerequisite, German 13, 16, 192a, or special examination.
Three hours, second semester. MR. BOSSHARD]

Konversations-und-Singabend. Lectures, discussions, and singing in German. Open without credit to all students. Through the year. M., 8–10 p. m. MR. BOSSHARD

DEPARTMENT OF HISTORY AND INTERNATIONAL RELATIONS

PROFESSOR BLAKESLEE, ASSOCIATE PROFESSOR LEE, ASSOCIATE PROFESSOR JORDAN, MR. BILLINGTON

UNDERGRADUATE WORK

The aim of the department in its undergraduate work is to give in its several courses a broad knowledge of the more significant aspects of the growth of the leading countries of the world. This includes the study not only of the important facts, but more especially of the processes of development in government, diplomacy, society, business, religion, science, and education.

Course 11, primarily for freshmen, is open to members of all classes; courses 15, 17 and 18 are open to sophomores, juniors and seniors, although History 11 or its equivalent will normally be required as a prerequisite for courses 15 and 18.

GRADUATE WORK

The distinctive feature of the graduate work is the emphasis it places upon the various aspects of international relations. Without neglecting investigation in the economic, political, and social life of preceding centuries, it makes an especial study of the problems and the difficulties constantly arising in the international relations and diplomacy of the family of states. The field includes not only the United States and the nations of Europe, but also the newer and rapidly developing states of Asia, Latin America, and Africa.

THE DOCTORATE

The various courses offered in the department are so arranged, in cycles of two or three years, that students working for their doctorate will be enabled to secure a full program each year.

A feature of the method of instruction in the department is the frequent informal conferences between instructor and student, and the Seminar method in many of the courses.

The following courses in related departments may advantageously be taken to supplement major work in the Department of History and International Relations: Geography of North America (Geog. 181a); Geography of Europe (Geog. 185b); Geographic Aspects of United States Foreign Trade (Geog. 362b); General Principles of Human Geography (Geog. 37a); Geography of Europe (Geog. 375b); Caribbean America (Geog. 383b); South America (Geog. 384a); Economic History (Ec. 14); International Economic Policies (Ec. 31); Social Psychology (Psy. 311).

GOVERNMENT AND POLITICAL SCIENCE

The following courses, given in the Department of History and International Relations, are frequently listed under a separate Department of Government and Political Science.

[History 12. European and American Governments.

[History 18. A Survey of International Relations.

History 231. International Law.

History 205. History of Political Thought.

History 30. Problems in International Relations.

[History 313a. Constitutional History of the United States.

COURSES IN HISTORY AND INTERNATIONAL RELATIONS*

1. Primarily for Undergraduates

11. Introduction to the History of Europe. The course covers the period from the fall of Rome to the present time, and serves as a general introduction to further historical study. Indivisible course.

Open to freshmen.

Three hours, through the year. Tu. Th. S., 10. Mr. Lee

[12. European and American Governments. The first semester will give a description of the leading Governmental systems of Europe; the second will deal with the Government and politics of the United States.

Three hours, through the year. A divisible course. Tu. Th. S., 11.
Mr. Lee and Mr. Billington]

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*See footnote, p. 61.

15. History of England. A general course forming a background for American history and an introduction to an understanding of Britain's place in the present world. Lectures, text-book, collateral reading and quizzes.
Three hours, through the year. M. W. F., 10. MR. JORDAN

17. American History Since 1783. After a brief survey of the American Revolution, the course will treat carefully the period since 1783. Divisible only in special cases with the approval of the department.
Three hours, through the year. Tu. Th. S., 9. MR. BILLINGTON

[**18. A Survey of International Relations.** A general survey of the whole field of international relations which will furnish a foundation for further and more specialized work.
Three hours, through the year. M. W. F., 9. MR. BLAKESLEE]

[**117 (Greek 17). Greek History.** This course will cover the period from the beginnings of Greek History to 146 B.C.
Open to freshmen with the consent of the instructor.
Three hours, through the year. M. W. F., 11. MR. BRACKETT]

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

20. Europe Since 1848. The internal and external development of the major European nations with special emphasis on the period from 1870 to the present.
Three hours, through the year. Tu. Th. S., 11. MR. LEE

22. The Pacific and the Far East. The course deals especially with China, Japan, Russia in Asia, and the islands of the Pacific.
Three hours, through the year. M. W. F., 9. MR. BLAKESLEE

231. International Law. A general course adapted for advanced students who will do a large amount of outside reading.
Three hours, through the year. M. W. F., 10. MR. BLAKESLEE

[**24. Modern France.** The course, beginning with the period of the Renaissance, surveys with greater detail than is possible in History 11 the history of France to the present time.
Three hours, through the year. Tu. Th. S., 11. MR. LEE]

[**25a. British India.** A survey of European rivalry in India, the work of the East India Company, the development of administration by the crown, and recent developments toward self-government.
Two hours, first semester.]

[**27. Latin America.** A survey of the history of the various Latin American countries with emphasis upon the relations with the United States.
Three hours, through the year. MR. BLAKESLEE]

[28. **History of the British Empire.** Most of the course will deal with developments and problems since 1870.
Three hours, through the year. M. W. F., 9. MR. JORDAN]

[29b. **Russia.** The aim of this course is to present Russian internal development from the origin of the Kievan state to the present time with special emphasis on the revolution of 1917 and the Soviet régime since that date.
Three hours, second semester. Tu. Th. S., 9. MR. LEE]

[201. **Social and Intellectual History of the United States.** The evolution of American life from the Revolution to the present day, with emphasis upon the social customs, economic influences, racial contributions, religious beliefs, and humanitarian movements.
Three hours, through the year. Tu. Th. S., 10. MR. BILLINGTON]

205. History of Political Thought. An historical course, in which the development of thought is stressed rather than the theories of individual writers.
Three hours, through the year. M. W. F., 11 MR. JORDAN

[213. **Constitutional History of the United States.** The Constitution is treated as a growing organism, responsive to the changing political, social and economic conditions of the country.
Three hours, through the year.]

[241a. **The United States Since 1865.** A synthesis of the political, social and economic forces in the development of the United States since the Civil War. Prerequisite, History 17 or its equivalent.
Three hours, first semester.]

242. American Colonial History to 1776. The European background of American history, the colonial period, and the American Revolution. Prerequisite, History 17 or its equivalent.
Three hours, through the year. Tu. Th. S., 10. MR. BILLINGTON

3. PRIMARILY FOR GRADUATE STUDENTS

30. Problems in International Relations. An intensive study of present outstanding problems, especially those which involve the policies, interests, and obligations of the United States.
Two hours, through the year. M., 3–5. MR. BLAKESLEE

[32. **Recent International Relations of the United States.** A lecture and research course covering the period from the Civil War to the present.
Two hours, through the year. MR. BLAKESLEE]

[313a. **Constitutional History of the United States.** The Constitution is treated as a growing organism, responsive to the changing political, social and economic conditions of the country.
Two hours, first semester. Tu. 3–5. MR. BILLINGTON]

320. England Since 1830. Students will be expected to read widely and to undertake a small amount of individual research.
Two hours, through the year. M. W., 4. MR. JORDAN

[**322a. Selected Topics in Recent British History.** Aspects of the period since 1815 will be dealt with but the ground covered will change somewhat from year to year.
Two hours, first semester. M. W., 4. MR. JORDAN]

[**331. European International Relations Since 1870.** A study of the diplomatic history of Europe from the Congress of Berlin to the Locarno agreements, 1925.
Two hours, through the year. Th. 3–5. MR. LEE]

333. Topics in the Recent and Contemporary History of Continental Europe. The course will consist chiefly of research by the individual student in problems confronting the European countries at the present day.
Two hours, through the year. Th., 3–5. MR. LEE

342. The Influence of Westward Expansion in American Development. The westward movement from colonial times to the passing of the frontier will be discussed in detail.
Two hours, through the year. Tu., 3–5. MR. BILLINGTON

[**35b. Tudor and Stuart England.** A survey for mature students of the period from 1485 to 1688.
Two hours, second semester. W., 4–6. MR. JORDAN]

351. Research in the International Relation of the United States. MR. BLAKESLEE

352. Research in the International Relations of the Pacific and the Far East. MR. BLAKESLEE

353. Research in the History and International Relations of the British Empire. MR. JORDAN

354. Research in the History and International Relations of Continental Europe. MR. LEE

355. Research in the History of the United States. MR. BILLINGTON

36. Seminar. The students in the department meet each week to study particular topics in international relations and to consider the results of investigation carried on in the department.
Weekly, through the year. Tu., 7.
MESSRS. BLAKESLEE, LEE, JORDAN, AND BILLINGTON

MATHEMATICS*

Professor Goddard, Associate Professor Melville,
Associate Professor Roope

The undergraduate courses are designed to furnish a practical knowledge of fundamental methods of mathematics which will be useful in the affairs of life, in business, and in the pursuit of the sciences as well as to prepare students for more advanced study in mathematics.

COURSES IN MATHEMATICS†

1. Primarily for Undergraduates

10. Elementary Course. Algebra, trigonometry and analytic geometry, with emphasis on the development of ability to think in mathematical terms. More elementary than course 11.
Open to freshmen.
Three hours, through the year. M. W. F., 8. Mr. Roope

11. Introductory Course. Elements of plane analytic geometry; plane trigonometry; elementary theory of equations; elements of determinants; and elements of differential and integral calculus.
Open to freshmen.
Three hours, through the year. Tu. Th. S., 8 and 9. Mr. Melville

12. Calculus and Analytic Geometry. Differential and integral calculus and Analytic Geometry, a continuation of course 11.
Three hours, through the year. M. W. F., 11. Mr. Melville

[**13. Calculus and Analytic Geometry, Plane Curves and Three Dimensions.**]

[**14. Differential Equations.**]

[**19b. Astronomy.**]

[**110a. Elementary Surveying.**]

[**113. Mathematical Statistics.**]

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*Beginning September 1933 the Department of Mathematics has been combined with the Department of Physics, for the time being, with Professor Goddard as chairman of the combined departments.

†See footnote, p. 61.

DEPARTMENT OF PHYSICS*

PROFESSOR GODDARD, ASSOCIATE PROFESSOR ROOPE

The aim of the undergraduate work of this department is to give to students a knowledge of the principles which are at the basis of modern applications of science to human affairs. It is deemed equally desirable to impart a knowledge of the methods and results of modern physics which are influencing so profoundly our fundamental concepts and without which no one may hope to be considered liberally educated. The department aims also to fit students with professional preparations for chemistry, meteorology and allied sciences, medicine, engineering and science teaching, as well as for professional or graduate work in physics.

For students majoring in physics, the following sequence of courses is recommended:

		Prerequisites	
Course	Year	Physics	Mathematics
11	First	None	None
14	Second	11	None
15	Second	11	12
13	Third	11	11
22 or 23	Third	11	12
23 or 22	Fourth	11	12
28	Fourth	11	12

GRADUATE WORK

The department is prepared to accept candidates for the degrees of Doctor of Philosophy and of Master of Arts. Emphasis is placed not only upon mathematical physics but also upon the completion of an original research problem for which work the laboratories and library provide unusual facilities.

Graduate students in physics whose minor is in mathematics may arrange for a special course in applied mathematics under the Department of Physics, based, for the degree of Master of Arts, on Mellor's *Higher Mathematics for Students of Chemistry and Physics.*

COURSES IN PHYSICS†

1. PRIMARILY FOR UNDERGRADUATES

11. General Physics. During the first semester, the work covers mechanics and heat, and during the second semester, electricity and magnetism, wave motion, sound, and light. The textbook is Duff's *General Physics.* Mathematics 10 or 11 is advised, but not required. Indivisible course.

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*See footnote, p. 88.

†See footnote, p. 61.

Open to freshmen.

Four hours, through the year. M. W. F., 10; W. or Th. 2.
MR. GODDARD

[13. **History of Physics.** A conference course on the history of the various branches of Physics. This course is not accepted as part of a *major* or a *minor.* Prerequisite, Physics 11.

Three hours, through the year. MR. GODDARD]

14. **Mechanical and Electrical Measurements.** During the first semester this course consists of electrical measurements with advanced problems in optics. In the second semester the course consists of laboratory exercises in dynamics, followed by advanced problems in heat.

Three hours, through the year. Tu. W. F., 2. MR. ROOPE

15a. **Optics.** Geometrical and physical optics including work in practical photography. The textbook is Houston, *A Treatise on Light.* Prerequisite, Physics 11.

Three hours, first semester. M. W. F., 9. MR. ROOPE

15b. **Thermodynamics.** This course includes a study of the thermal properties of the solid, liquid, and gaseous states, the laws of thermodynamics, and the theory of heat engines. Prerequisite, Physics 11.

Three hours, second semester. M. W. F., 9. MR. ROOPE

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

22. **Theoretical Mechanics.** This course is a systematic presentation of theory together with the solution of problems. The textbook is Crew and Smith, *Mechanics for Students of Physics and Engineering.* Mathematics 12 must be taken before or with this course.

Three hours, through the year. M. W. F., 8. MR. GODDARD

[23. **Theory of Electricity and Magnetism.** This course treats the general principles of dynamo and motor design, high-frequency phenomena and the electron theory of matter. The prerequisites are Physics 11 and Mathematics 10 or 11; Mathematics 12 must be taken before or with this course. A knowledge of differential equations is desirable. The textbook is Starling's *Electricity and Magnetism.*

Three hours, through the year. MR. GODDARD]

[27. **Preliminary Mathematical Physics.** This course involves reading on specially assigned topics. The object is to provide a comprehensive background for advanced work in physics. Open to undergraduate majors in physics of high standing.

Three hours, through the year. MR. ROOPE]

28a. Laboratory Methods. A course in the methods of preparing and presenting the results of experiments and the preparation by each student of a report on at least one assigned topic that involves reference tables and literature. Prerequisite, Physics 11.
Three hours, first semester. M. W. F., 10. MR. ROOPE

3. PRIMARILY FOR GRADUATE STUDENTS

[**34. Advanced Mechanics.** This course includes vector analysis, the equations of Lagrange and Hamilton, the methods of Hamilton and Jacoby, and Newtonian and logarithmic potential functions together with a discussion of applications to various branches of physics.
Three hours, through the year. Tu. Th. S., 10. MR. GODDARD]

[**35. Advanced Electricity and Magnetism.** The theory of electricity and magnetism is treated from the classical and the modern viewpoints.
Three hours, through the year. Tu. Th. S., 11. MR. ROOPE]

[**36. The Partial Differential Equations of Mathematical Physics.** Included in this course are vector analysis, the methods of Cauchy and Fourier, developments in series, the methods of Green and Riemann-Volterra, normal functions, and integral equations.
Two hours, through the year. MR. GODDARD]

[**37. Research Work in Physics.** Research work on an original problem in physics. Required of candidates for the master's degree.
MR. GODDARD]

[**311. Methods of Mathematical Physics.**
Three hours, through the year. MR. GODDARD]

[**312. Theory of Elasticity and Dynamics of Fluids.**
Three hours, through the year. MR. GODDARD]

[**313. X-Rays.**
Three hours, through the year. MR. ROOPE]

[**314. Tensor Calculus with Applications in Physics.**
Three hours, through the year. MR. ROOPE]

315. Research Work in Physics. Research work on an original problem in physics. Required of candidates for the degree of Doctor of Philosophy. MR. GODDARD

[**316. Seminar and Research Conference.** A seminar on modern theories of physics, together with conferences on current literature and on the researches in progress.
Once a week, through the year. W., 4–6.
THE STAFF OF THE DEPARTMENT]

317. Selected Topics in Modern Physics.
Three hours, through the year. F., 2–5. MR. GODDARD

318. Relativity and Wave Mechanics.
Three hours, through the year. M., 2–5. MR. ROOPE

DEPARTMENT OF PSYCHOLOGY*

Professors Murchison and Hunter, Associate
Professor Jones and Assistant Professor Graham.
Also Professor Hoagland *of the Department of Biology.*

LABORATORY FACILITIES

The psychological laboratories occupy thirty-two rooms on the third floor of the main building of the University. These laboratories were established by G. Stanley Hall immediately after the founding of Clark University, and constituted the first adequately appointed psychological laboratories in America. These laboratories, under the direction of Edmund C. Sanford and John W. Baird, increased rapidly in size and in research possibilities. The collection is rich in historical apparatus, an example being the vernier chronoscope which was invented and developed here by Edmund C. Sanford. The laboratories have an annual appropriation sufficient to provide for the purchase and manufacture of any apparatus that may be required for general and special investigations. Four dark-rooms, with special apparatus and facilities for research in the neural correlates of vision, have recently been added. The animal laboratory has recently been enlarged and better equipped.

GRADUATE WORK

Note: *Beginning with September, 1931, the organization involves a relationship between the Department of Biology and the Department of Psychology whereby students in either department may be credited with certain advanced courses and research in the other. Candidates for the degree of Doctor of Philosophy in psychology will be required to minor in general physiology, and in order to do this will be required to have, or to obtain, the necessary elementary knowledge of biology, chemistry, mathematics, and physics.*

Admission. Admission to graduate work in psychology, as in the case of other departments, is subject to the approval of the Graduate Board. However, the Graduate Board does not admit without the approval of the department. Admission is open to those individuals who have been graduated from accredited institutions, and whose academic record gives promise of the successful conduct of graduate work. Admission is not open to those who have never had training in elementary psychology. In addition to elementary psychology, adequate training for graduate work includes general courses in biology, physics, chemistry, mathematics, French, and German. Students who have not had such courses will be required to take them after entering Clark.

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*The Department of Education and School Hygiene was merged with the Department of Psychology at the beginning of the year 1926–27.

Courses. Students who come with the ideal preparation for beginning graduate work, i.e., with adequate training in elementary experimental psychology supplemented with general training in biology, physics, chemistry, mathematics, French and German, may expect to devote nearly all of their time during the first year to advanced course-work. Such students will need to devote about half of their time to course-work during their second year, and may expect to devote full time to research after the second year. Students not ideally prepared will be incapable of following such a schedule.

The Master's Degree. The general University requirements for the master's degree are explained elsewhere in the catalogue. The department will supplement these requirements in individual cases where it seems wise to do so. Students hoping to become candidates for the master's degree, such degree to be conferred at some definite future time, should discuss the matter without delay.

The Doctor's Degree. Only superior graduate students are encouraged to become candidates for the doctor's degree. Not only is such a candidate required to obtain exact information concerning all the significant psychological methods of research, but he is also required to demonstrate actual ability to use one or more of these methods in original research on important problems. The thesis problem should be agreed upon before the end of the second year of residence, and should be the chief occupation of the student during the final year in residence.

Theses. In addition to the general university requirements concerning the preparation and delivery of theses, the department has a supplementary requirement of an additional copy of each thesis, as well as a suitable photograph of the author, to remain on file in the department.

COURSES IN PSYCHOLOGY*

1. Primarily for Undergraduates

11a. General Psychology. A general introduction to the study of human behavior from the genetic and experimental points of view. Required for all other courses in the department.
Three hours, first semester. Tu. Th. S., 11. Mr. Graham

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*See footnote, p. 61.

To be offered as a year course in 1934–35. Prerequisite sophomore standing. Indivisible course.

Three hours, through the year. Tu. Th. S., 9.
MR. HUNTER AND MR. GRAHAM

12b. Experimental Psychology. Students will be made familiar, by use, with the apparatus used in psychological investigations. Admission by consent of instructor.

Three hours, second semester. Tu. Th., 2. MR. GRAHAM
To be offered as a year course in 1934–35.

14a (Education 14a). Educational Psychology. A study of psychology as it bears upon the problems of education.

Three hours, first semester. W., 11–12:45; F., 11. MR. JONES

15b (Education 15b). Individual Differences and Exceptional Children. The course will include a study of the bright, the dull, the psycho-neurotic, and delinquent child.

Three hours, second semester. Th., 11; S., 11–12:45. MR. JONES

16b (Education 16b). Principles of Education. A survey of the aims, responsibilities, and general methods in education.

Three hours, second semester. W., 11–12:45; F., 11. MR. JONES

[**17b (Education 17b). Philosophical and Historical Foundations of Modern Education.** A study of the rise and philosophical bases of modern educational policies and practices.

Three hours, second semester. W., 2–4; Th., 2–3. MR. JONES]
To be omitted in 1934–35.

19a (Education 19a). Psychology of Character. A survey and critical evaluation of the experimental evidence in the field and its application to education for character and citizenship. This course will require practice teaching in the form of oral reports from all undergraduate students. (Graduate students may register for two-hour's credit and attend only the two-hour meeting on Saturdays.)

Three hours, first semester. Th., 11; S., 11–12:45. MR. JONES
Offered in 1933–34 and in alternate years.

18b. Fields of Psychology. An introduction to the different fields of psychology. Opened to a limited number of students who have completed Psychology 11a.

Three hours, second semester. MR. GRAHAM AND ASSISTANTS
Not to be offered in 1934–35.

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

[**200. Social Psychology.** An attempt to formulate generalizations from the phenomena of populations, laboratory aggregates, insect and mammalian societies, and human social history, and to test these generalizations in the experimental analyses of concrete social situations. Open

to graduate students in all departments and to undergraduates who have had either Psychology 11 or Biology 11. Two hours' credit to graduate students and three hours' credit to undergraduates.
Through the year. Tu. Th., 12. MR. MURCHISON]

[**202 (316 in 1934–35). Sense Organ Functions.** The functions of the various sense departments: vision, audition, smell, taste, pressure, pain, temperature, and kinesthesis.
Two hours, through the year. Th., 4. MR. GRAHAM]
To be offered in 1934–35 and in alternate years.

203a. Reflex Activity. Spinal, postural, and conditioned reflexes as components of behavior; the rôle of autonomic activity in conduct; emotional responses.
Two hours, first semester. Tu. Th., 9. MR. GRAHAM
Offered in 1933–34 and in alternate years.
To be offered Th. at 4 after 1933–34.

Biology 200. General Physiology. (For description, see announcement of Department of Biology.)

Biology 205. Seminar in Experimental Biology. (For description, see announcement of Department of Biology.)

206. Animal Behavior. A study of the topics of instinct, habit formation, sensory processes, and the higher adaptive forms of behavior.
Two hours, through the year. Tu. Th., 10. MR. HUNTER

207a. The Learning Process. A critical and experimental study of the chief problems of learning and memory.
Three hours, first semester. M. W. F., 10. MR. HUNTER

3. PRIMARILY FOR GRADUATE STUDENTS

301b. Seminar in the Principles of Psychology. A comparative study of systems of psychology with particular reference to structuralism, functionalism, and behaviorism.
Two hours, second semester. M., 11–1. MR. HUNTER
Offered in 1933–34 and in alternate years.

304. Departmental Seminar. Devoted to the study of selected topics in current psychological literature. Required annually of all students *majoring* in psychology for advanced degrees.
Through the year. W., 4. THE STAFF OF THE DEPARTMENT

305. Research. Intended primarily for graduate students engaged in research for the doctor's degree. THE STAFF OF THE DEPARTMENT

Biology 306. Mechanisms of Reaction. (For description, see announcement of Department of Biology.)

310. Child Behavior. This course will consist of a critical examination of the literature bearing on the experimental investigation of child behavior.
Two hours, through the year. Th., 4. MR. MURCHISON
To be omitted in 1934–35.

[**311. Social Psychology.** A systematic survey of social behavior ranging from the group behavior of microscopic organisms to the complex phenomena of human culture groups.
Two hours, through the year. MR. MURCHISON]
To be omitted in 1934–35.

313a (Education 313a). Advanced Educational Psychology: Group Methods of Experimentation. The purpose of the course will be primarily to give practice in the most valuable statistical methods for psychological experimentation.
Two hours, first semester. Tu., 4:20. MR. JONES

314b (Education 314b). Advanced Educational Psychology: Tests and Measurements. A systematic and critical survey of psychological tests. Both theoretical and applied aspects of testing will receive consideration.
Two hours, second semester. Tu., 4:20. MR. JONES

315b (203b in 1934–35). Quantitative Interpretation of Experimental Data. General principles used in quantitative treatment of psychological and physiological data. The problem of verification of hypothesis by quantitative methods.
Two hours, second semester. Tu. Th., 9. MR. GRAHAM
Offered in 1933–34 and in alternate years.
To be offered Th. at 4 after 1933–34.

DEPARTMENT OF ROMANCE LANGUAGES

PROFESSOR CHURCHMAN, ASSISTANT PROFESSOR DOUGHERTY

See the statement of the general requirement in foreign language, for all candidates for the A.B. degree in the announcement of the Undergraduate Division.

The French courses are planned with the following ends in view: French 11 and 12 are the basic language courses. To the student who has completed 12, courses 13 and 14 offer an option between a continuance of general language work and a course limited to translation and literature; both may be taken. Those who wish to continue the study of literature after taking 14, will take course 114, followed by the courses in which the literature is studied intensively. Those interested primarily in the study of the language will take 13 and then 17, the latter being especially valuable for prospective teachers of French, for whom course 101a, The Teaching of Modern Languages, may also be of interest.

COURSES IN FRENCH*

1. Primarily for Undergraduates

[11. **For Beginners.** Emphasis on reading ability. Incidental aural, oral, and written work. Indivisible course.
Open to freshmen.
Three hours, through the year. M. W. F., 10.
To be offered in alternate years. Mr. Churchman]

12. **Intermediate.** Extensive reading, exercises in composition and pronunciation. Prerequisites, French 11 or two years of high school French. Indivisible course.
Open to freshmen.
Three hours, through the year. Tu. Th. S., 8. Mr. Dougherty

Note: *Courses 13 and 14 are of equal difficulty. Either may be taken upon the satisfactory completion of French 12 or three years of high school French.*

13. **Composition and Pronunciation.** The objective of this course is the correct writing, pronunciation, and aural comprehension of present-day French.
Open to freshmen.
Three hours, through the year. Tu. Th. S., 9. Mr. Dougherty

14. **Readings in French Literature.** The aim of French 14 is two fold: the attainment of facile reading ability, a general view of modern French literature based upon a detailed study of ten works of representative authors.
Open to freshmen.
Three hours, through the year. M. W. F., 11. Mr. Dougherty

114. **General View of French Literature.** A unified and fairly complete account of French literature from the beginning to the present time. Prerequisite, course 14.
Three hours, through the year. Tu. Th. S., 10. Mr. Churchman

Note: *The courses in literature listed below are offered each year to qualified students as private conference courses, devoted to wide reading by the student along lines suggested by his own preferences but under guidance by the instructor in weekly conferences. A short thesis is required in each semester. Before undertaking any of these courses it is ordinarily assumed that the student will have successfully completed French 114 and will have given evidence of ability to do advanced work by himself.*

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*See footnote, p. 61.

15. Literature of the Seventeenth century. MR. DOUGHERTY

115. Literature of the Middle Ages. MR. DOUGHERTY

16. Literature of the Nineteenth Century. MR. CHURCHMAN

116. Literature of the Sixteenth Century. MR. CHURCHMAN

19. Literature of the Eighteenth Century. MR. DOUGHERTY

119. Contemporary Literature. MR. CHURCHMAN

17. Phonetics, Advanced Composition and Oral Work. Intensive linguistic work for intending teachers and other advanced students. Prerequisite, course 13.
Three hours, through the year. M. W. F., 10. MR. CHURCHMAN
Offered in alternate years.

101a (Education 101a). The Teaching of Modern Languages. A study of the major problems in the teaching of French. Incidental references will be made to German and Spanish. Prerequisite, third year college French or German course, taken previously or at the same time.
Three hours, first semester. Tu. Th. S., 11. MR. CHURCHMAN
(In 1934–35, W., 4:20–6.)

COURSES IN SPANISH*

1. PRIMARILY FOR UNDERGRADUATES

11. Elementary. Carefully graded reading; exercises in grammar and pronunciation. Attention is paid to the artistic and cultural achievements of Spain. Indivisible course.
Open to freshmen.
Three hours, through the year. M. W. F., 10. MR. DOUGHERTY

[**12. Intermediate.** Combination of readings from Spanish literature with more advanced study of the language, oral and written. Prerequisite, course 11 or two years of high school Spanish.
Open to freshmen.
Three hours, through the year. Tu. Th. S., 10. MR. CHURCHMAN]
Offered in alternate years.

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*See footnote, p. 61.

DEGREES CONFERRED

In the Calendar Year 1933

BACHELOR OF ARTS

Lambi Nicholas Adams
Edward Aronovitz
Arthur William Back
(With High Honor)
Herman Beigelman
(With Honor)
Alfred Wardle Bennett
Gordon Luman Benson
Wallace Frank Bither
Raymond Francis Cardinal
Daniel Joseph Casale
Joseph Sandor Cheka
Maurice James Colbert
Myer Arthur Dworkin
Allan Laidlaw Estabrook
Abraham Falk
Otis Cowan Ferguson
(With Honor)
Robert Fine
Robert Joseph Fitzpatrick
Louvane Alfred Fox, Jr.
George Malcolm French, Jr.
Herman Joseph Grimmer
Perry Blackmer Hall
James Harrison
Russell William Higginbottom
Edward Harry Horovitz
George Everett Howarth
Sydney Jaffe
(With Honor)
Yngve Walter Johanson
Charles Bernard Kabaker
Louis Theodore Karaku
Urho Korpi
Toivo Matthews Laakso
(With Honor)
Benjamin Tinkham Marshall, Jr.
Theodore Thomas McLaughlin
George Mulvey
David Jillson Parker
John James Pender
Lloyd Politsch
Joseph Reardon
Emerson Charles Reed
Raymond Serge Roy
Ilmari Fritiof Salminen
Isaac Seligson
Harold Knowland Smith
William John Snape
Solomon Eli Steiman
Gustav Walter Steinhilber
James Masefield Stevens
George Ramsay Strub
Leo Vincent Sullivan
Oliver Emil Sundberg
Ernest Anthony Tosi

BACHELOR OF EDUCATION

Helen Margaret Carey
Anna May Converse
Mary Ethel Cotterel
Joshua William Denton
Gertrude Frances Healey
Irene Mary Kennedy
Dorothy Gertrude Kilton
Frances Mildred Louise McCormack
Josephine Moyer
Florence Abbie Nelson
Harriet Ashton Sayle
Mary Ellen Sayle
Mary Louise Ward

MASTER OF ARTS

Dorothy Adams
Robert James Beitel, Jr.
Sidney Berengarten
Robert Heath Brown
Milan Adelbert Chapin, Jr.
Fannie Bette Cohen
Gertrude Rose Collins
Randle Edwin Dahl
Gordon Gerald Darkenwald
Sarkis Melkon Donabedian
Walter Albert Durham, Jr.
Elaine Kathryn Foraker
Gladys Franklin
Emil Hirsch Grodberg
Charlotte Elaine Hall
Mildred Amy Henderson
Anna Gertrude Hines
Axel Verner Holmgren
Evert John Larson
George Spowart McPherson
John Joseph Moran
Michael Thomas Neary
Sidney Harold Newman
Eleanor Margaret O'Donnell
Gertrude Raffel
Wilho Mathias Salminen
Isaac Seligson
William Provan Shaw
Joseph Michael Shea
Fred Waldo Shipman
Robert Bonebrake Simpson
Abraham Slopak
Joseph Roy Smith
William Harold Somers
Alfred Rockwell Sumner
Eugene Michael Sweeney
Albert Richard Thomas
Tillie Mabel Thompson
Sara Frances Waites
Vincent Martin Walsh
Karl Chism Whitehouse
Walter C. Wilson

DOCTOR OF PHILOSOPHY

Barry Casper
Victor Raymond Edman
Charles Grove Haines
Herschel Heath
Robert Levine
Harley Porter Milstead
Hugh Mackenzie Morrison
George Henry Primmer
Earl Bennett Shaw
Mary Elizabeth Stewart
Guy Herbert Winslow

SUMMARY

Bachelor of Arts	51	Master of Arts	42
Bachelor of Education	13	Doctor of Philosophy	11

REGISTER

Names of students are grouped in three lists, I, those who registered in either semester of 1933–34 II, those who attended the 1933 Summer School and III, extension students.

Explanation: S—scholar; F—fellow; HF—honorary fellow; numerals 34, 35, 36, and 37 are used to classify undergraduates; g—students formally admitted to the graduate division; s—special students; B—biology; Ch—chemistry; Ec—Economics and sociology; En—English; G—geography; Gl—geology; Ger—German; H—history and international relations; M—mathematics; Ph—physics; Ps—psychology.

State omitted—Massachusetts; town omitted—Worcester; street names refer to streets unless otherwise indicated.

This list includes the names of all who have matriculated and registered. An asterisk (*) indicates that the student has withdrawn from the University prior to March 1, 1934.

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Abodeely, Robert Assad	36		71 Suffolk
Adam, John, Jr.	37		442 Chandler
*Adams, Elmer Comstock	Ger s	Holden	
Adams, Lambi Nicholas	C s		105 Millbury
Adams, Wesley Lyall	37		64 Windsor
Adams, Willard Granville	36	Holden	
Allan, Walter Scott	35		29 Genesee
Allen, Agnes Morgan	G F	Normal, Ill.	41 Beaver
Allen, Edward Searle	37	Westfield	Estabrook Hall
*Andrews, Walter Howard	Ps s	West Brookfield	
Angyal, Alice	Ps g	Vienna	Worcester State Hosp.
Anish, Alfred William	34		7 Moen
Argoff, Arthur	36		25 Providence
Arsenault, Philip Elwin	35		43 Lyman
Backstrom, Arthur Richard	34	Auburn	
Baldwin, Joseph Vincent	36	North Wilbraham	Estabrook Hall
Barkhouse, Arthur Julius, Jr.	34	Brookline	
Bassinov, Saul	34	Mattapan	
Beeber, Raymond Alton	35		14 Dover
Beitel, Robert James, Jr.	Ps F	Catasauqua, Pa.	14 Oberlin
*Beliauskas, Peter	37	Oxford	
*Bennert, Alfred Raymond	Ch s	Southbridge	
*Bennett, Arthur Gould	37	Charlton City	
Berg, Carl Gustaf	36		843 Millbury
Berthiaume, Gerard Mandeville	35	Spencer	
Bethel, Preston Crockett	37	Milford	
Betten, Morris	37		14 Jones
Bibeau, Delphis, Jr.	36		303 Cambridge
Bingham, Thomas Francis	35	Nashua, N. H.	8 Wyman
Bishop, Harold Mason	34	Shrewsbury	
Blanchard, Willard Francis	37	Millbury	
Blaney, Cyril Chandler	36	Westford	8 Wyman
Blomfield, Carl J.	G F	Detroit, Mich.	17 Freeland
Boin, Victor Paul	37		129 Eastern Ave.
Bolduc, Robert Aime	35		7 Chrome
Bortz, Nelson Markley	Ec F	Collegeville, Pa.	
Botts, Adelbert Kenneth	G F	Minneapolis, Minn.	17 Freeland
Brandes, Frederick Millea	37		67 May
Brauer, Murray	37		750 Pleasant
Brierly, William Biggar	34	Millbury	
Briggs, Charles Dwight, Jr.	37	Winchendon	31 Stoneland Rd
Brissette, Armand J., Jr.	Ec F		34 Piedmont
Broad, Jacques Leon	37	Scarsdale, N. Y.	7 Harvard
Brooker, Maurice	34	Boston	3 Maywood Pl.
Brosnihan, Andrew Joseph	36		127 Puritan Ave.
Brothers, Harold Barnard	37		50 Arthur
Brown, Earle, Jr.	35		77 Elm
Brown, Robert Heath	Ps F	Ames, Iowa	Estabrook Hall
Bullock, Arnold James	36	Farnumsville	
Burggraaf, Stanley R.	H g		1010 W. Boylston
Burton, Charles Jewell, Jr.	37		46 Beaver
Burwick, Maurice Julius	35	Fitchburg	
Butler, Philip Edward	34		21 Preston
Butler, William Frank, Jr.	36		10 Melville
Carleton, Thomas McMaster	B s	Shrewsbury	
Carls, John Norman	G F	Virginia, Ill.	12 Grand
Carpenter, Philip Lattimore	35	New London, Conn.	49 Florence
Carpenter, Thomas Patten	34	New London, Conn.	49 Florence
Carroll, Arthur Wheeler	35	Barre	Estabrook Hall

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Castaldi, Basilio	36	Boylston	
Chaffee, John Bernard	H g	Oxford	
Chapin, Milan Adelbert, Jr.	Ch F	Bethel, Me.	2 Woodbine
Christensen, Thomas Edison	H g		10 Lancaster
Clark, Burton Everett	35	Sutton	
Clark, Hugh Daniel	34	Pawling, N. Y.	4 Hancock
Cohn, Charles Baer	35	Allston	4 Hancock
Colangelo, Robert C.	Ec g		5 Norcross
Collins, Edward Richard	34		34 Shirley
Collins, Fred Joseph	Ec S	Reno, Nev.	166 Woodland
*Collins, Gertrude Rose	H F	Toledo, Ohio	12 Shirley
Conant, Alvah James	35		30 Hartshorn Ave.
Convery, James Francis, Jr.	37		29 Princeton
Cotton, Jordan Leon	37		12 Stockton
Crane, Lloyd Eager	34		1 Shirley Ter.
Cutler, Norman Giles	34	West Brookfield	
Danstedt, Rudolph Theodore	Ps s		32 Wabash Ave.
Darkenwald, Gordon Gerald	G F	Wimbledon, N. D.	4 Hancock
Davis, Wendell Woodworth	37	Holden	
Delano, David Prentice	37		62 Holden
Derber, Milton	37	Springfield	Estabrook Hall
Desjardins, Lucien Henri	Ph s		52 Assumpton Ave.
DeVries, Harold Carlyle	35	Aurelia, Iowa	14 Oberlin
Dewar, Margaret Helen	Ps s		94 Lakewood
Dobie, Albert J.	H g		25 Devens Rd.
Domblatt, Herman William	35		17 Hitchcock Rd.
Dombrosk, Harry Frederick	35		139 Austin
Donaher, J. Francis	Ch s		6 Irene
Dorn, Frank	36		75 Providence
Downey, Joseph Daniel	34		238 Webster
*Drawbridge, William Jefferson	36	Holden	
Duprey, Dorothea Marie	H g		37 Kenwood Ave.
Eames, Robert Porter	36	Wallingford, Conn.	Estabrook Hall
*Eaton, Hugh Oliver	37	Millbury	
Edman, Victor Raymond	H HF		27 Wyola Dr.
Ekblaw, Sidney Everette	G F	Leicester	
Elias, Stephen	37		98 Austin
Ellis, Ralph F.	34	Houlton, Me.	80 Florence
Erickson, Albert Clarence	Ph F		479 Park Ave.
Erickson, Franklin Carl	G F		15 Forestdale Rd.
Erickson, Irving Peter	37		15 Forestdale Rd.
Erickson, Roland Axel	35		479 Park Ave.
Fairman, Alonzo Bruce	36	Springfield	Estabrook Hall
Finer, Harold Mitchell	36	Dorchester	6 Charlotte
Fink, Marvin Samuel	36	New Britain, Conn.	3 Maywood Pl.
Fletcher, Thomas Lloyd	37		125 Grand View Ave.
Fletcher, William Glover	36	Brookfield	
*Flynn, Edwards William	37		126 Woodland
Forrest, Edward Lester	34	Stockbridge	Estabrook Hall
Fortier, Quincy Ernest	37	Shrewsbury	
French, Wellington Armstrong	34	Stockbridge	Estabrook Hall
*Fuller, Robert Lyman	36		574 Pleasant
Gallagher, Cleon Goodrich	34	Millbury	
*Galvin, Howard William	H s		146 Lincoln
*Gardner, Alexander Jamieson	G F	Mesa, Ariz.	12 Grand
George, Gordon Bennett	36	Westboro	
Gifford, Roger Gaillard	36	Passaic, N. J.	Estabrook Hall
Glaude, Paul Marcel	35	Biddeford, Me.	38 Crystal
*Gleeson, Paul Francis	H s	Providence, R. I.	
Glidden, Walter D.	35	Nantucket	16 Shirley
Glover, Everett Dow	37	West Millbury	
Goldberg, Edwin Louis	37		543 Grafton
Goldenberg, Alfred	35		94 Cutler
Goldrosen, Ephraim	37		69 Providence
Gordon, Jacob	37	Dorchester	Estabrook Hall
Gordon, Samuel	37		85 Granite
Gould, David Marshal	35		59 Vale
Gould, Isadore George	37	Clinton	19 Oliver
Goulding, John Paul	35	Leicester	
Grady, Gertrude Esther	G g		3 Hitchcock Rd.
Graham, Arthur Robert	35		14 Lewis
Graham, Boynton	34	Haverhill	35 Maywood
Grant, Robert Donald	36	Paxton	
Green, Arnold Wilfred	37	Three Rivers	Estabrook Hall
Green, Frances	Ec g	Shrewsbury	
Grodberg, David Abraham	36		142 Elm
Grodberg, Emil Hirsch	Ec F		142 Elm
Grout, Milton Lory	35		83 Olean

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Gruzdzis, Vincent Paul	34		39 Canton
Guterman, Henry Samuel	37		15 Tahanto Rd.
Hall, George Edward	37	Millbury	
Hall, Oliver Richard	36		12 Hanson Ave.
*Hancock, John	Ps S	Barre	23 Montague
Hansen, Robert Eugene	36		8 Ericsson
Hardy, Sherman Edward	Ps s		346 Lovell
Hargrove, Harold Gordon	37		37 Hudson
Hause, Earl Malcolm	H g	So. Lancaster	
Haworth, Lawrence Alanson	37	Dalton	Estabrook Hall
Healy, Lawrence Patrick	36		100 Fairmont Ave.
Hemenway, Everett Merritt	34		105 Fairfield
Herrick, Guy Scott	Ch F	Lewiston, Me.	166 Woodland
Hershman, Max	37	Dorchester	Estabrook Hall
*Hillhouse, Douglas Paton	35	West Haven, Conn.	6 Wayne
Hirtle, John Richard	35	Brookfield	
Hoar, Walter Ahaesy	35		24 Maywood
Hodge, Walter Henricks	34		21 Suburban Rd.
Hodgkins, Alfred Sawyer	36		6 Silver
Holdcamper, Forrest Robert	H F	Sparks, Nev.	166 Woodland
Holmgren, Axel Verner	Ch F		34 Ames
Holstrom, Andrew Gustaf	37	Auburn	
Holter, Richard Norman	34		23 Brighton Rd.
*Hope, Walter Dudley	Ec s		8 Wyman
Hopewell, Robert Dudley	37		12 George
Horne, Glendon Cloyes	36	Shrewsbury	
Howarth, Margery Duff	Gg S	Royal Oak, Mich.	41 Beaver
*Howie, Samuel James	37	Millis	
Hulbert, Kenneth Lee	36	Westboro	
Huston, Paul E.	B s	Shrewsbury	
Hutchinson, Joseph Carleton	37	Haverhill	Estabrook Hall
Inman, Walter Grant	H S	Indianola, Iowa	166 Woodland
Ivazian, Aghasi Ivan	36		228 Highland
Jannery, Harold Kennith	37	Millbury	
Jewett, Gleason Wiley	36	Gardner	68 Moore Ave.
Johnson, Austin Simon	36	So. Manchester, Conn.	4 Norwood
Johnson, Charles Francis	34		54 Standish
Johnson, Wendell John	34		5 Winchester Ave.
*Kane, Robert John	37		128 Russell
Kaneb, Kenneth Abraham	34		602 Grafton
Kanowitz, Sidney	37	Chester	Estabrook Hall
Kaplanko, Alexander M.	M s	India	31 Lancaster
*Karaku, Louis Theodore	Ch s		20 Bancroft
Karn, Harry Wendell	Ps F	Pittsburgh, Pa.	3 Bancroft
*Karvonen, Sulo Joseph	37	Westminster	140½ Eastern Ave.
Kaufman, Edith R.	Ec S		9 Commodore Rd.
Kayer, Donald Allen	34		54 Dover
Keeler, Marston W.	s	Whitinsville	
Keith, John Robert	36	Warren	
Kelly, Thomas Herman	37		49 Coolidge Rd.
Kemp, Edward Harris	Ps F	Zebulon, N. C.	6 Hancock
Kennan, Dana Willard	37		157 Highland
Kennedy, Ann Pauline	G g		3 Channing Way
Kennedy, Kathleen Mary	G S		3 Channing Way
Kimball, Roland Charles	36	Westboro	
*King, Thomas Edward	Ec s		61 Maywood
King, Willis Lorenzo	H g	So. Lancaster	
Kirkendall, Walter E.	Gs S	Indianola, Iowa	766 Main
Kneller, George Frederick	H g		30 Franconia
Korpi, Urho	Ch S		18 Catherine
Krzinowek, Alfred Joseph	36	Rutland	6 Jaques Ave.
Kushner, Joseph Martin	35	New London, Conn.	980 Main
Laakso, Toivo Matthews	Ch S	Gardner	3 Agawam
Laine, Iver	36		42 Vilander
Lalos, Arthur Henry	36		8 Gold
*Langlois, William Edward	H s		25 Trowbridge Rd.
Laskoff, Leo Lawrence	36		22 Highland Ter.
Lavine, Hymen	36	Boylston	
Lax, Martin	36	Dorchester	Estabrook Hall
Lehtinen, Paul John	34		183 Eastern Ave.
Leighton, Herbert Towle	34	Morristown, N. J.	Estabrook Hall
Lemaire, Minnie E.	G F		4 Kendrick Ave.
Lenat, Ralph Warner	37	Spencer	
Levine, George	34	Brooklyn, N. Y.	21 Grand
Levine, Jacob	36	Dorchester	
*Levitsky, Hymen	Ch s		23 Colonial Rd.
*Lewis, Randolph Emery	35	Auburn	
Lewis, William Lloyd	37		21 Strathmore Rd.

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Leyden, Philip John	37	Springfield	Estabrook Hall
Lisk, George Francis	35	Millbury	
Lodding, Woodrow Charles	37		30 Terrace Dr.
Lopatin, Colman	36	New Haven, Conn.	14 Edgewood
Lotven, Jacob	Ec S	Springfield, Mo.	70 Downing
Love, Elizabeth Perry	G g	Auburn	99 College
Lupien, David William, Jr.	37		162 Heard
Lynch, George Francis	H s		38 King
MacArthur, Harvey Heywood	36	Sterling	
MacKnight, Jesse Mackenzie	H F	Lakewood, N. J.	58½ Downing
Magarian, Robert	37		116 Belmont
Mahan, Arthur Raymond	36	New Britain, Conn.	35 Maywood
Maher, John William	36		8 Hadwen Lane
Maher, William Joseph	36		8 Hadwen Lane
Malkiel, Saul	34	Mattapan	980 Main
Manoogian, Michael	36		104 Belmont
Marsh, Carl George	37		1 Ball
May, Louis Henry	36	Keene, N. H.	Estabrook Hall
McCarron, Andrew Thomas	36		66 Dover
McCauley, Byron Francis	34	Dalton	978 Main
McHugh, Elizabeth Frances	s		28 Woodbine
McReynolds, George Edgar	H F	Clinton, Ind.	166 Woodland
Melville, Robert Seaman	37		16 Isabella
Menard, Roland Joseph	B s	Spencer	
Mikelk, Franz Stanley	36	Gilbertville	4 Chapin
Miles, Robert Albert	36		6 Hancock
Miller, Eugene Herbert	H S	Reading, Pa.	114 Woodland
Miller, LeRoy C.	G g	Edinburg, Va.	17 Freeland
Millman, Nathan	36	Springfield	6 Charlotte
Mintz, Evrom	36		7 Woodford
Montague, Richard Armsby	37	Millbury	
Moody, Fredric William	37	Leicester	
Moore, Norman Buck	35	Sterling	
Moquin, Henry Joseph	Ch s		Assumption College
*Morgan, Vincent	En s		67 West
Moss, Paul Francis	34		2 Arletta Ave.
*Mullen, J. Ernest	35	Shrewsbury	
Mulvey, George	H g	West Brookfield	
Mulvey, John Richard	36	Randolph	13 Bell, Spencer
*Nadeau, Eleanore	G F	Seattle, Wash.	166 Woodland
Neet, Claude Cassell	Ps F		919 Main
Nelson, Carl Elmer	36	Milton	Estabrook Hall
Nelson, James Stewart	34	Holden	
Nelson, Wilfred Albert	35		30 Whipple
Newman, Sidney Harold	Ps F	Danville, Va.	6 Hancock
Newton, Albert Eugene	37	Windsor, Vt.	Estabrook Hall
*Newton, Evans Kendrick	36	Niagara Falls, N. Y.	Sanford Riley Hall
Noble, Otis More	37	Jersey City, N. J.	Estabrook Hall
Nystrom, John Warren	36		40 Eunice Ave.
Oberg, Ernest Victor	34		8 Victoria Ave.
O'Connor, John Francis	34		67 Oread
Ohman, Howard Leonard	36		23 Sunrise Ave.
Ohrn, Roy August	34		18 Mill
O'Neil, Richard James	36	Garden City, L. I., N. Y.	Estabrook Hall
Opitz, Edmund Albert	36		6 Trinity Ave.
Ordway, Robert Shaw	36		1017 Main
Ortman, Joseph	37		64 Beaver
Palmer, Franklyn George	35	Springfield	16 Shirley
Parker, Harry C.	G g		12 State
Parmelee, Richard Clark	36	Durham, Conn.	8 Wyman
Parson, Ruben L.	G F	Battle Lake, Minn.	12 Grand
Patterson, Frank Harmon	37	Bristol, Conn.	Estabrook Hall
Pearson, Arthur Hilman	37	Brookfield	
Peltier, Louis Cook	37	West Boylston	Estabrook Hall
Perch, Emmanuel	37		110 Chandler
Perkins, Frederick Thomas	37	Shrewsbury	
Perman, Maxwell Louis	35		63 Russell
Perry, Joseph Leo	37		208 Lincoln
Person, Robert	37		19 Fiske
Pervere, John Maurice	37	Greenfield	Estabrook Hall
Picó, Rafael	G F	Coamo, P. R.	Estabrook Hall
Pierce, John Hewett	35		15 Berwick
Plotkin, Abraham	36		59 Arlington
Pollack, Malvin Max	37	Haverhill	Estabrook Hall
Pomerat, Gerard R.	37	W. Springfield	4 Walnut
Pomeroy, Everett Graham	35	Sunderland	156 Fairhaven Rd.
Popowicz, Walter Thomas	37		28 Washington
Porter, David	37		28 Woodford

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Porter, David Russell	35	Wellesley	2 Woodbine
Potter, Laurence Everett	37	Nashua, N. H.	Estabrook Hall
Prescott, Milton Edwin	35		110 North Pkwy
Price, Galen Royer	37	Kelsey City, Fla.	56 Bowdoin
Pride, George Howard	36		22½ Orchard
*Prouty, Etta Frances	H g	Shrewsbury	
*Racicot, Theodore Peter	37	Webster	
Rapaport, Harry	37	Marlboro	
Ravitz, Louis Arnold	36		138 Elm
Reynolds, James Bernard	34		142 Wildwood Ave.
Richardson, Horatio Maunsell	37		115 Paine
Richmond, Mark Stanley	36	So. Hanover	4 W. Oberlin
*Ricker, Henry Carroll	35		36 King
Riggs, Lorrin Andrews	Ps g	Melrose	4 Woodbine
Riley, James Lewis	36		38 Burncoat
Riley, Paul Ward	37		194 Ingleside Ave.
Riley, Stephen Thomas	H F		194 Ingleside Ave.
Ristow, Walter William	G F	La Crosse, Wisc.	12 Grand
Roberts, Mary Catherine	G F	Lowville, N. Y.	24 Loudon
Robinson, Virginia Mae	G S	Philadelphia, Pa.	166 Woodland
Rochette, Robert Phillips	35		15 Colonial Rd.
Romanoff, Bernard Leon	36		61 Houghton
Romanoff, Saul Mones	37	Clinton	
Ross, Harold William	36	Spencer	
Rosvall, Toivo David	34		197 Eastern Ave.
Rothera, Ralph Edward	36		16 Caro
Rubin, Morton Albert	B F	Roxbury	28 Hollywood
Russell, Roger Wolcott	35		22 Holland Rd.
Russell, William Franklin	34		147 Coolidge Rd.
Ryan, Philip Edward	H g		12 Vassar
Salminen, Ilmari Fritiof	Ch S	Hubbardston	
Salminen, Wilho M.	Ch F	Hubbardston	
Sandman, Jordan Philip	34		20 Berkmans
*Savage, Stephen George	36		13 Barclay
Schorr, Stanley Alvin	37		18 Hartshorn Ave.
Serijan, Kasper Thomas	36		34 Ormond
Shachoy, Gordon Ralph	34	Allston	
Shamagochian, George Karaken	36		8 Winfield
Shanbaum, Samuel	36	Clinton	
Shapiro, Leon Marshall	37		59 Haywood
Shappy, Roland Francis	34	Sutton	
Sharrett, Ralph Louis	36	Bristow, Va.	Estabrook Hall
Shaw, Raymond Edward	H s	Millbury	
Shaw, William Provan	H F		68 Mann
Shea, Daniel John	37		11 Windham
Shiverick, Paul Bradford	37	Winchester	Estabrook Hall
Sievers, Angelika	G F	Germany	166 Woodland
Simonds, William Albert	37		66 Lovell
Slopak, Elias	34	Colchester, Conn.	980 Main
Smart, Lyndwode Norton Lee	34		37 Oak Ave.
Smith, Joseph Roy	Ps F	Verona, Pa.	14 Oberlin
Smith, Mary Winifred	G S		159 Cambridge
Smith, Nathan Joseph	34	Chelsea	42 Freeland
Smithline, Joseph	34	New London, Conn.	21 Grand
Solomon, Abraham	36		7 So. Stowell
Spence, Robert Adams	Ec g		53 Kenwood Ave.
Spencer, Roger Burgess	35		14 Quinapoxet Lane
Stackpole, Joseph Thomas	37		60 Maywood
Stavrianos, Leften Stavros	H S	Vancouver, B. C.	166 Woodland
Steinhilber, Gustav W.	Ch g		46 Dorchester
Steinhilber, Otto William	35	Shrewsbury	
Stephan, Leon LeMar	G g	Bowling Green, Ky.	12 Grand
Stevens, Frank Paul	Ec S		1 Russell
Stewart, Kenneth Howard	36		11 Hammond
Stimson, William Thomas	37		34 Outlook Dr.
Stockman, Harlan Wheelock	37	Dodge	
*Stratton, Florine Parker	Ps s		28 Circuit Ave.
Stratton, Harold Linson	Ps s		28 Circuit Ave.
Sukaskas, Vitold	35		18 Hillside
Sullivan, George Paul	Ch s		13 Hancock
Sullivan, William C.	35	Bolton	
Sundberg, Oliver Emil	Ch S	Gardner	
Sundeen, Earl Ivan	37		48 Channing
Sundeen, Lillian Evangeline	Ps s		48 Channing
*Tacker, Herbert Ralph	36		33 Lincoln
Talbot, Russell Paul	34		72 Kenberma Rd.
Tangney, Robert A.	H g		8 Mayfair
Tappan, Paul W.	34	Danbury, Conn.	35 Maywood
Ruggles, Ella Keith	B s	Gilbertville	Worcester St. Hosp.

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Tashjian, Berge	34		1 Ashland
Tatham, George	G F	Liverpool, Eng.	166 Woodland
Taylor, Richard Colton	34	Spencer	
Taylor, Robert Clark	37	Stoneham	Estabrook Hall
Terio, Oiva Axel	36	Rutland	
Terrill, Irving William	37		60 Andover
Tillman, Jacob	36	Springfield	6 Charlotte
Titus, Howard Andrews	37	East Morris, Conn.	Estabrook Hall
Tobin, Irwin Morris	H S	Mattapan	27 Florence
Toman, James Edward	37	Manchester, Conn.	Estabrook Hall
Toy, Charles Mallery	Ch s	Chesapeake City, Md.	Worcester State Hosp.
Trumbull, John Thomas	35	Chicopee Falls	4 Woodbine
Turner, Stanley Glendon	34	Chester	8 Wyman
Vaitkus, John Walenty	37		202 Pleasant
Vinciguerra, Edmund Albert	35	Bridgeport, Conn.	Estabrook Hall
Walker, Donald Albert	34		33 Montague
Warner, Carlos Hazelton, Jr.	37	Utica, N. Y.	Estabrook Hall
Warren, Arthur Bertrand	37		117 Beaconsfield Rd.
Wasink, John Joseph	37	Farnumsville	
Waskiewicz, Peter Francis	37	Warren	113 Brookline
Watchorn, Arthur Walter	36	Millbury	
Waxler, Samuel	37		36 Bridgeport
Westerholm, Roland John	34		5 Hockanum Way
Weston, Joseph Fitz Randolph	37	Boston	Estabrook Hall
White, Francis William	37		450 Park Ave.
White, Robert Francis	37	Millbury	
Whitehouse, Karl Chism	Ch F	Abington, Conn.	15 Gates
Whitman, Howard Glenn	34		48 Downing
Wilder, Arthur Stanley	36		3 Bernice
Wilder, Frederick Howard, Jr.	34	Waltham	18 Shepard
Williams, Arthur Robert	35	Dalton	Estabrook Hall
Williams, Joel	37	Dorchester	
Wilson, Sydney Edward	34	Hartford, Conn.	21 Grand
Wilson, Walter C.	Ec S	Reno, Nev.	24 Loudon
Young, Benjamin Carl	34		63 Harlem
Youngquist, Lincoln Roy	36		47 Sterling
Zarrow, Myer X.	34	Millbury	

EXTENSION STUDENTS

Second Semester, 1932–33

Adams, Ellen
Babson, C. Amy
Bacon, Ruth I.
Barr, Grace
Brown, A. Jean
Bryant, Nellie J.
Buckley, Frances G.
Cahill, Anna G.
Cahill, Catherine M.
Callahan, Florence B.
Carey, Helen M.
Casey, Irene C.
Clark, Esther M.
Clarke, Lois
Coffey, Grace C.
Converse, Anne M.
Cooke, James A.
Delaney, Mary F.
Dewing, Doris N.
Dobbins, Alice P.
Dodge, Cora J.
Drumm, Francis A.
Duggan, Helen
Early, Mary
Erikson, Viola B.
Feeley, Katherine R.
Fisher, Mary B.
Fox, Florence E.
Gilgan, Mary A.
Ginn, Addie M.
Griffin, Mae K.
Groden, Anna R.
Groden, M. Mildred
Hays, Janet C.
Healey, Gertrude F.
Higginbotham, Willie R.
Holmquist, Harold
Horne, Emma M.
Horne, Grace A.
Hoyle, R. Marjory
Illingworth, Selma K.
Jetté, Loretta J.
Kelley, Katherine A.
Kennedy, Irene M.
Kilton, Dorothy G.
Kirby, A. Florence
Larkin, Alice B.
Lee, Alice J.
Leonard, A. Loretta
Lombard, Grace M.
Lombard, Mildred
Loungway, Lillian A.
Lyseth, Amy C.
Mahan, Kathryn E. A.
Mahoney, Margaret V.
Manifold, Mary E.
Manning, Eileen F.
Maxwell, Lillian R.
Maynard, Gertrude
McCormack, Frances M. L.
McDonald, Mary I.
McGourty, Kathleen V.
McManus, Elizabeth S.
Medin, Elin E.
Mellen, Alice M.
Moran, Helen G.
Moran, Honora A.
Morrison, Agnes R.
Nagle, Mary E.
Nelson, Florence A.
O'Brien, Mary E.
O'Connor, Deborah F.
O'Connor, Mary Ellen
O'Grady, Winifred L.
Olson, Adella A.
Paton, Walter J.
Plunkett, Francis T., Jr.
Quinn, Margaret
Rollins, Ellen H.
Rougvie, Agnes S.
Ruggles, Ella K.
Sayle, Harriet A.
Sayle, Mary E.
Scott, Edna M.
Scott, Marion L.
Shea, Agnes G.
Shea, Joseph M.
Sherman, Eva M.
Shewbrooks, Helen M.
Somers, Catharine A.
Stone, Elizabeth
Stone, Lillian M.
Sugden, Lelia
Sullivan, Marie
Sweeney, Thomas J.
Talbot, Geraldine C.
Tobin, Edward F.
Toy, Charles M.
Walker, Ruth A.
Wallace, Clifford R.
Ward, Mary L.
Wassell, Albert W.
White, Ruth M.
Willard, Ethel L.
Wilmarth, Madelin A.

EXTENSION STUDENTS

1933–34

Adams, Ellen
Adams, Mary G.
Adshead, Mona
Amidon, Dorothy A.
Babson, C. Amy
Bacon, Ruth I.
Bartlett, Lucia R.
Brennan, Elizabeth A.
Brennan, Joseph F.
Brown, A. Jean
Brown, Henry M.
Bryant, Nellie J.
Buckley, Frances G.
Caase, Emilie C.
Cahill, Anna G.
Cahill, Catherine M.
Carmody, Catherine A.
Carver, Elizabeth W.
Clarke, Lois
Coffey, Grace C.
Colbert, Ruth A.
Colby, Helen P.
Cone, Mary M.
Cramer, Hyman S.
Cunningham, Helen M.
Daley, Mary A.
Degnan, Francis J.
Delaney, Mary F.
Dewing, Doris N.
Dobbins, Alice P.
Donahue, Katherine C.
Donnelly, Mary T.
Doyle, Margaret M.
Drawbridge, Inez A.
Drouin, Ludivine
Duggan, Helen G.
Early, Mary
Erikson, Viola B.
Feeley, Katherine R.
Fisher, Mary B.
Gilgan, Mary A.
Gilmore, Hazel J.
Ginn, Addie M.
Gould, Ruth I.
Gunn, Sarah C.
Harney, Helen
Hays, Janet C.
Horne, Emma M.
Illingworth, Selma K.
Jacobs, Elizabeth
Jacobs, Mary
Jenks, Olive A.
Keans, Mildred F. L.
Kennedy, Winnifred C.
Killeen, Florence F.
Kirby, A. Florence
Kittredge, Mary F.
Krasnow, Zara
Lavin, Leonora M.
Lee, Alice J.
Lombard, Mildred A.
Loungway, Lillian A.
Mahan, Kathryn E. A.
Mahoney, Margaret V.
Maloney, Catherine M.
Mann, Alma P.
Manning, Eileen F.
Marshall, Nora A.
Maxwell, Lillian R.
Maynard, Florence
Maynard, Gertrude
McCarron, Nora F.
McCarthy, Ann E.
McDonald, Mary I.
McDonnell, Nellie A.
McGillicuddy, Mary V.
McGourty, Kathleen V.
McGrady, Mary Catherine
McGrath, Mary A.
McHugh, Elizabeth F.
McKenna, Ellen R.
McManus, Elizabeth S.
Medin, Elin E.
Mellen, Alice M.
Misiewicz, Harriet A.
Moran, Helen G.
Moran, Honora A.
Morgan, Marjorie S.
Morgan, Katharine I.
Morrison, Agnes R.
Nagle, Mary E.
Nichols, Catherine R.
O'Connor, Deborah F.
O'Connor, Mary Ellen
O'Connor, Nicholas H.
O'Grady, Winifred L.
Ohrn, I. Marie
Orr, Elizabeth
Payne, Douglas W.
Phillips, Ruth C.
Pierpont, Dorothy L.
Pietrewicz, Joseph J.
Plunkett, Francis T.
Power, Gertrude C.
Proctor, Eleanor R.
Quinn, Margaret
Regan, Mary E.
Rice, Nathan
Rice, Rebecca
Richardson, Evan C.
Roberts, Ruth M.
Rollins, Ellen H.
Rollins, Grace D.
Rougvie, Agnes S.
Rourke, Elizabeth A.
Sanders, Helen
Scott, Marion L.
Seder, Jeanette R.
Shea, Agnes G.
Shea, Joseph E.
Sturke, Ralph C.
Sugden, Lelia
Sullivan, Catherine A.
Sullivan, Marie
Sullivan, Mary A.
Talbot, Geraldine C.
Tobin, Edward F.
Walker, Ruth A.
Wallace, Clifford R.
Wilmarth, Madelin A.

1933 SUMMER SCHOOL

F. T. indicates participation in a field trip only.

Adams, Wesley L., Worcester
Adams, Willard G., Holden
Adshead, Mona, Auburn
Atwood, Mary F., Worcester
Babson, C. Amy, Worcester
Baldwin, Joseph V., North Wilbraham
Barker, Margaret O., Worcester
Bassett, Paul A., Gardner
Battey, Mary V. W., West Boylston
Beishlag, George, Detroit, Mich.
Beriswill, Irene, Cleveland, O.
Bliven, David P., Worcester
Bolduc, Robert A., Worcester
Bond, Evelyn G., Baldwin, L. I., N. Y.
Boyd, Lucile B., Barre
Boyer, Helen M., Washington C. H., O.
Brant, Rosa E., West Warwick, R. I.
Breen, Joseph M., Worcester
Buckley, Catherine, Worcester
Carey, Helen, Worcester
Carroll, Arthur W., Barre
Carroll, Walter T., Worcester
F. T. Casserly, Jane, Bridgeport, Conn.
Churton, Florence H., New Brunswick, N. J.
Clark, Hugh D., Jr., Pawling, N. Y.
Cole, Juliet A., New York, N. Y.
F. T. Conner, J. Eva, Southbridge
Converse, Anne, Worcester
Corttis, Virginia P., Quinebaug, Conn.
Cotterel, Mary E., Reading, Pa.
Critz, Verne W., East Patchogue N. Y.
Cutler, Norman G., West Brookfield
Deihl, Lee H., Shippensburg, Pa.
Denton, J. William, Roxbury
Devoy, Robert F., Worcester
DeVries, Harold C., Worcester
Doherty, Charles E., East Pepperell
F. T. Donovan, Elizabeth, Bridgeport, Conn.
Downey, Joseph D., Worcester
Doyle, Margaret M., Worcester
Dunn, Ellen G., Worcester
Ekblaw, Sidney E., Leicester
Flanagan, Bertha M., Johnstown, N. Y.
Flynn, Katherine C., Worcester
Flynn, Richard J., Worcester
Fryer, Francis L., Worcester
Garrity, Agnes L., Uxbridge
Geer, Gordon N., Dalton
Gilchrist, Martina, Worcester
F. T. Gordon, Mrs. Jacob, Port Chester, N. Y.
Greenawalt, Norman E., Shippensburg, Pa.
Guerin, Katherine H., Worcester
Hall, Bertha C., Worcester
F. T. Hanlon, Nellie F., Oswego, N. Y.
Harding, Kenneth C., Worcester
Hargreaves, Russell W., Philadelphia, Pa.
Hargrove, H. Gordon, Worcester
Hayden, M. Dolores, Poughkeepsie, N. Y.
Higginbottom, Russell W., Millbury
Hogan, Winnifred T., Worcester
Hokanson, Linnea, Worcester
F. T. Holbrook, Mary F., Springfield
Holmquist, Harold, Worcester

Illingworth, Selma k.
F. T. Holzer, Sadie M., Arlington, N. J.
F. T. Jackson, Catherine E., Port Chester, N. Y.
Johanson, Ingrid, Oakdale
Johnston, Claire, Worcester
Jones, Herbert S., Gary, Ind.
Kane, Florence, Bath, N. Y.
Kennedy, Kathleen M., Worcester
King, Willis L., Sterling Jct.
Kirby, A. Florence, Worcester
Kistler, Esther L., Nanticoke, Pa.
Koenig, Henry A., Seward, Nebr.
Langley, Roger F., Barre
Leahy, Ruth Ann, Worcester
Lee, Alice J., Worcester
Lemaire, Willard M., Worcester
Leonard, A. Loretta, Worcester
Looney, Margaret C., Worcester
Loungway, Lillian A., Brookfield
Love, Elizabeth P., Southbridge
McCormack, Frances M. L., Worcester
McDonald, Katherine, Worcester
McGovern, Thomas F., Worcester
McKenna, Mary Jane, Worcester
McManus, Elizabeth S., Worcester
Mandeville, Kathryn, Worcester
Marsh, Austin L., Holden
Maxwell, Lillian R., Worcester
Mellen, Alice M., Holden
Melton, Nell Lawson, Atlanta, Ga.
Melville, Robert S., Worcester
Miller, Mary L., Worcester
Morton, Evelyn M., Worcester
Moyer, Josephine, Reading, Pa.
Mullen, J. Ernest, Worcester
Nagle, Mary E., Worcester
Nylin, C. George, Worcester
O'Connor, Deborah, Worcester
O'Connor, Mildred S., Worcester
O'Donnell, Gertrude C., Worcester
O'Grady, Winifred L., Worcester
O'Hearn, Mary M., Roxbury
O'Sullivan, Catherine, Worcester
Parson, Ruben L., Battle Lake, Minn.
Peabody, Eleanor Lane, Troy, N. H.
F. T. Phipps, M. Alice, Clockville, N. Y.
Power, R. L., Canton, N. Y.
Price, Galen R., Worcester
Pride, George H., Worcester
F. T. Prouty, Grace, Pulaski, N. Y.
Putnam, Howard L., Miami, Fla.
Quinn, Margaret, East Douglas
Racicot, Theodore P., Webster
Ravitz, Louis A., Worcester
Reardon, Joseph, Quincy
F. T. Rhoades, Fanny F., Hannibal, N. Y.
Rich, Bertha, Bloomsburg, Pa.
Riley, James L., Worcester
Riley, Paul W., Worcester
Rollins, L. H., Knoxville, Tenn.
Rourke, Elizabeth A., Worcester
Rush, Anne S., Scottsville, N. Y.
Samson, Dorothy H., Wardsboro, Vt.
Sanders, Phoebe E., Whitinsville
F. T. Scanzillo, Fannie, Bridgeport, Conn.
Sharry, Margaret, Worcester
Shea, Agnes G., Worcester
Shea, John C., Worcester
Shea, Joseph E., Worcester

Silver, Gladys, Worcester
Simpson, Robert B., Grand Forks, N.D.
Sloan, Helen, Worcester
Smith, Carroll E., Batavia, N. Y.
Smith, Winifred, Worcester
Spencer, Roger B., Worcester
Spiesman, Marion E., Cedarhurst, N.Y.
Steinhilber, Gustav W., Worcester
Stevens, Dorothy H., Worcester
Sugden, Lelia, Spencer
Sutphen, Charles N., Norristown, Pa.
Tabor, Osborne B., Southbridge
Talbot, Geraldine C., Worcester
Talbot, Russell P., Worcester
Tangney, Robert A., Worcester
Thomas, Albert R., Highland Park, Mich.
Tilton, Evelyn E., Trenton, N. J.
Tivnan, Margaret, Worcester
Vail, Anna F.
Van Name, M. Etta, Farnumsville Sta., N. Y.
Virtue, Jessie, Meadville, Pa.
Waites, Sara F., Birmingham, Ala.
Ward, Mary L., Worcester
Wells, Irene H., Lawrence
Whitman, Howard G., Worcester
Whitney, Howard W., Princeton
F. T. Wilcox, Ruth H., Rocky Hill, Conn.
F. T. Wing, Ruth M., Port Chester, N. Y.

SUMMARY 1933-34

Undergraduates		294	
Freshmen	103		
Sophomores	83		
Juniors	49		
Seniors	59		
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CLARK UNIVERSITY

The Forty-fourth Annual Commencement

JUNE 11 1934

Order of Exercises

Processional: Priest March from Athalia	*Mendelsohn*
Overture: Marriage of Figaro	*Mozart*
Invocation	Reverend Marshall N Goold Union Church Worcester
Commencement Address	Clarence Prouty Shedd Clark 1909 Yale Divinity School
Annual Statement of the President	
Announcements	The Edmund C Sanford Scholarship The Prentiss Hoyt Prize for Poetry The Ahepa Greek Prize
Symphony in B Minor Unfinished	*Schubert*
Conferring of Degrees	
Benediction	
Recessional: Torchlight Procession	*Scottson-Clark*

Music by
Clark University Orchestra
George Kneller: Director
Joseph Kushner: Concertmaster

The audience will kindly remain
standing during the recessional

CLARK UNIVERSITY

Final Assembly of the 1934 Summer School

August 9, 8.30 p. m.

I. The Romancers *Edmond Rostand*

A One Act Play

CAST

(In order of appearance)

Sylvette, *Daughter of Pasquinot*	Europa Harris
Percinet, *A Lover*	Galen Price
Bergamin, *Father of Percinet*	H. Gordon Hargrove
Pasquinot, *Father of Sylvette*	George Pride
Straforel, *A Bravo*	Francis Wiesman

SCENE

The juncture of the estates of Bergamin and Pasquinot

II. Conferring of Degrees Mr. Leon E. Felton

Bachelor of Education

Mary Frances Delaney
Katherine Rita Feeley
Selma Konold Illingworth
Alice Josephine Lee
Mildred Agnes Lombard
Elizabeth Sherlock McManus
Helen Gertrude Moran
Mary Elizabeth Nagle

Master of Arts

Geography

Margery Duff Howarth
Kathleen Mary Kennedy
Virginia Mae Robinson
Mary Winifred Smith
Althea Catherine Stautz

History and International Relations

Robert Gifford Brearley
Dorothea Marie Duprey
Willis Lorenzo King
George Mulvey
Philip Edward Ryan
Robert Albert Tangney

Candidates for the Degree of Bachelor of Arts

Alfred William Anish
Arthur Richard Backstrom
Arthur Julius Barkhouse Jr.
Saul Bassinov
Harold Mason Bishop
William Biggar Brierly
Philip Edward Butler
Hugh Daniel Clark
Edward Richard Collins
Lloyd Eager Crane
Ralph Fletcher Ellis
Edward Lester Forrest
Wellington Armstrong French
Cleon Goodrich Gallagher
Everett Merritt Hemenway
Walter Henricks Hodge
Charles Francis Johnson
Wendell John Johnson
Kenneth Abraham Kaneb
Paul John Lehtinen
Herbert Towle Leighton
George Levine
Saul Malkiel
Byron Francis McCauley
Paul Francis Moss
James Stewart Nelson
Ernest Victor Oberg
John Francis O'Connor
Roy August Ohrn
James Bernard Reynolds
Jordan Philip Sandman
Gordon Ralph Milton Shachoy
Roland Francis Shappy
Elias Slopak
Lyndwode Norton Lee Smart
Nathan Joseph Smith
A Joseph Smithline
Russell Paul Talbot
Berge Charles Tashjian
Richard Colton Taylor
Stanley Glendon Turner
Donald Albert Walker
Roland John Westerholm
Howard Glenn Whitman
Frederick Howard Wilder Jr.
Sydney Edward Wilson
Benjamin Carl Young
Myer X Zarrow

WITH HONOR

Thomas Patten Carpenter
Toivo David Rosvall
William Franklin Russell
Paul Wilbur Tappan

WITH HIGH HONOR

Boynton Graham
Vincent Paul Gruzdzis

Candidates for the Degree of Master of Arts

Biology

Morton Albert Rubin

Chemistry

Urho Korpi
Toivo Matthews Laakso
Ilmari Fritiof Salminen
Oliver Emil Sundberg

Economics and Sociology

Fred Joseph Collins
Edith Rose Kaufman
Jacob Lotven
Frank Paul Stevens

Geography

×Agnes Morgan Allen
×Carl James Blomfield
John Norman Carls
Ruben LeRoy Parson
Rafael Picó
*Robert Bonebrake Simpson
*Alfred Rockwell Sumner

History and International Relations

Walter Grant Inman
Eugene Herbert Miller
Leften Stavros Stavrianos
Irwin Morris Tobin

Psychology

Lorrin Andrews Riggs

*As of August 10, 1933

× In absentia

All degrees awarded as listed.

Candidates for the Degree of Doctor of Philosophy

Chemistry

Guy Scott Herrick

Geography

Adelbert Kenneth Botts
Gordon Gerald Darkenwald
Sidney Everette Ekblaw
Joshua Sullivan Gibson
George Tatham

History and International Relations

Albert Bickmore Corey
Forrest Robert Holdcamper

Physics

Albert Clarence Erickson

Psychology

Harry Wendell Karn Jr.
Edward Harris Kemp

Annual Collegiate Honors

SENIORS

First Honors

Bonyton Graham
Vincent Paul Gruzdzis

Second Honors

Thomas Patten Carpenter
William Franklin Russell
Paul Wilbur Tappan

JUNIORS

First Honors

Roland Axel Erickson
Paul Marcel Glaude
David Marshal Gould

Second Honors

Walter Scott Allan
John Paul Goulding
Alfred Goldenburg
Milton Lory Grout

SOPHOMORES

First Honors

Milton Derber
David Abraham Grodberg
Austin Simon Johnson

Second Honors

Basilio Castaldi
William Glover Fletcher
Lawrence Patrick Healy
Leo Lawrence Laskoff
Jacob Levine
Evrom Mintz
John Warren Nystrom

FRESHMEN

First Honors

Edwin Louis Goldberg
Henry Samuel Guterman
William Lloyd Lewis
James Edward Toman

Second Honors

John Adam Jr
Victor Paul Boin
Leon M. Shapiro.
Charles Jewell Burton Jr
Thomas Lloyd Fletcher
David Porter

EDMUND C SANFORD SCHOLARSHIP

Roland Axel Erickson

THE PRENTISS HOYT PRIZE IN POETRY

Arthur Robert Williams for his poem "Youth on a Granite Ledge"

AHEPA GREEK PRIZE

Paul Marcel Glaude

Clark University

BULLETIN OF INFORMATION

Number 109 February, 1934

ANNOUNCEMENT OF

THE SUMMER SCHOOL

July 2—August 10, 1934

WORCESTER, MASSACHUSETTS

SCHEDULE OF LECTURE AND RECITATION HOURS

Instructor	8	9	10	11	12	Afternoon
Ridgley	Geography *28	Geography 181	Geography 12			
Jones	Geography 14					Geography *392‡, *34
Ekblaw		Geography *27		Geography *285		Geography 11§, 16+, *37
Burnham				Geography 192	Geography 190	
Little	Geology 1					
Lee		History 111		History *22		History *354
Billington			History *201		History 101	History *355
Brandenburg			Economics *22	Economics 2		Economics *32
Barnes	Sociology 11	Sociology *25				
Illingworth		Education *22	English 7	English 8		
Geography Staff						Geography *30†

NOTE: All the above courses are Summer School courses. The symbol "SS" before the numeral which distinguishes courses in Summer School from those given during the regular academic year is omitted. *Courses suitable for graduate credit. †Wednesdays at 3. ‡Mondays, Thursdays, and Fridays. §All day on Saturdays. +2–4 on Tuesdays.

CALENDAR

July	2	Monday, beginning 9 A.M. Registration Day. 12 M. Opening Assembly. 8–10 P.M. Reception to members of the Summer School.
July	3	Tuesday, 8 A.M. Lectures and recitations begin.
July	4	Wednesday, Independence Day.
July	5	Thursday, 8:30 P.M. Open lecture. "Economics for Today." Dr. Samuel J. Brandenburg.
July	12	Thursday, 8:30 P.M. Open lecture. "Highland Indians of Peru and Bolivia." Illustrated. Dr. Clarence F. Jones.
July	19	Thursday, 8:30 P.M. Open lecture. "Europe Today." Dr. Dwight E. Lee.
July	26	Thursday, 8:30 P.M. Open lecture. "Trip up the Nile." Illustrated. Dr. Homer P. Little.
August	2	Thursday, 8:30 P.M. Open lecture. "Russian Backgrounds." W. Elmer Ekblaw.
August	9	Thursday, 8:30 P.M. Final Assembly. Conferring of Degrees.
August	10	Friday. Summer session closes.
August	11	Saturday, 8 A.M. Appalachian Highlands Field Trip begins.
August	24	Friday. Field trip ends.

All meetings will be held in the Jonas G. Clark auditorium unless announcement to the contrary is given.

Four Lecture Recitals on the Best Books of the Year—Novel, Poetry, Biography, Drama—by Professor Robert S. Illingworth. Tuesday evenings, 7:30, Union Room, First Floor, Jonas G. Clark Hall, open to the public. Dates, July 10, 17, 24, 31.

COMMITTEE ON THE SUMMER SCHOOL

THE PRESIDENT OF THE UNIVERSITY
THE DIRECTOR OF THE SUMMER SCHOOL
MESSRS. BLAKESLEE, MELVILLE, BRANDENBURG

The Bulletin is published in January, February, March, April, May, June, October, November, and December.

Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in section 1103, Act of October 3, 1917, authorized January 24, 1921.

OFFICERS OF INSTRUCTION AND ADMINISTRATION

Wallace Walter Atwood, Ph.D. President of Clark University and Director of the Graduate School of Geography.	*Geography*
Douglas Clay Ridgley, Ph.D. Director of the Summer School and Professor of Geography in Education, Clark University.	*Geography*
Clarence Fielden Jones, Ph.D. Professor of Economic Geography, Clark University.	*Geography*
Walter Elmer Ekblaw, Ph.D. Professor of Geography, Clark University.	*Geography*
Guy H. Burnham, A.M. Cartographer, Clark University.	*Cartography*
Homer Payson Little, Ph.D. Dean of the College and Professor of Geology, Clark University.	*Geology*
Dwight E. Lee, Ph.D. Associate Professor of Modern European History, Clark University.	*History*
Ray Allen Billington, Ph.D. Instructor in History, Clark University.	*History*
Samuel J. Brandenburg, Ph.D. Professor of Economics and Sociology, Clark University.	*Economics*
Gerald Barnes, Ph.D. Assistant Professor of Economics and Sociology, Clark University.	*Sociology*
Robert S. Illingworth, A.M. Associate Professor of English, Clark University.	*English*
Lydia P. Colby	*Recorder*
Florence Chandler	*Bursar*

THE SUMMER SCHOOL AT CLARK UNIVERSITY

Clark University is now laying special emphasis on fields of study that lead to a better understanding of national and international problems. Geography, Economics, and History and International Relations are of fundamental importance to all students interested in the solution of the larger problems now before the world.

The Summer School program is concentrated in a few closely related departments of study—Geography, Geology, History, Economics, English, and Education. The rich library resources of these fields give opportunity for wide reading.

The work of the Summer School is intensive. Courses meet five times a week. Three courses are considered a full program. Many students will find it advantageous to concentrate all their energies on the work of two courses or even on a single course.

LOCATION AND BUILDINGS

Clark University is located on Main Street about a mile and a quarter southwest of the City Hall. Trolley cars run directly past the University. Taxicab service is available at moderate price.

The office of the Summer School is located in the Jonas G. Clark Hall, which contains also the general offices of the University. Most of the exercises of the Summer School are held in this building. The office of the President of the University and the Geography workroom are in the Geography Building where some classes are held.

In the Science Building are located the lecture room and laboratories of the departments of Physics and Chemistry.

All the classroom, library, and laboratory facilities of the University, so far as they pertain to the subjects of instruction offered, are at the disposal of students of the Summer School.

THE LIBRARY

The Library of the University was provided with a generous endowment by the founder of the Institution, and affords favorable opportunities for study and research. The Library now owns more than 140,000 bound volumes and pamphlets, and the Reading Room receives more than 500 journals. All the privileges of the Library are open to all members of the University, and each member has direct access to every book and journal.

In addition to the library facilities provided by the University, students may avail themselves of the privileges of other excellent libraries in the city. The Worcester Public Library contains 250,000 volumes. The Library of the American Antiquarian Society, housed in the national headquarters of the Society in Worcester, contains more than 500,000 volumes and pamphlets. These libraries are pleased to serve Summer School students.

ADMISSION TO THE SUMMER SCHOOL

Graduates of colleges, technical schools, normal schools, or secondary schools, college students, and teachers in schools of any grade are admitted as a matter of course upon application. Other applicants are admitted upon approval of their qualification for the work which they desire to do.

Students in the College Division of Clark University who desire to have work done in the Summer School credited toward an A.B. degree are required to obtain the approval of the College Board.

REGISTRATION

Persons who desire to enter the Summer School should detach and fill out the application form which is printed at the end of this Bulletin and forward it, with the registration fee of two dollars, to the Clark University Summer School. The amount of the registration fee will be deducted from the tuition fee when the latter is paid. Checks should be made payable to Clark University.

The registration of all students in all courses should be completed on July 2. To this end students should, as far as possible, determine before the opening of the session, through personal conference or correspondence with the Director, or the various instructors, the courses in which they expect to register.

Formal registration will take place between 9 A.M. and noon on Monday, July 2, in Jonas G. Clark Hall. All instructors will be on hand for consultation and for signing registration cards between these hours. The opening assembly of the Summer School will be held in the Auditorium, July 2, at twelve o'clock. Class work will begin promptly on Tuesday morning.

CREDIT FOR WORK DONE

Some of the courses of instruction in the Summer School are of college grade, others are strictly graduate courses, and many are equally suitable for advanced undergraduates or graduate students.

Unless otherwise announced, each course is designed to cover the equivalent of two semester hours of credit, and is so credited when applied toward a degree in Clark University. Three courses constitute a full schedule; a maximum of four courses may be taken, but only with the consent of the Director. With the consent of the instructor, students may attend other classes as auditors.

A certificate, with a statement of courses taken and grades received, will be furnished at the close of the session to all students who desire it. In order to obtain a prompt report, students should leave a stamped and addressed envelope at the Recorder's office during the last week of the session.

Summer School courses may be applied toward the fulfillment of the requirements for the degree of Bachelor of Arts, Bachelor of Education, or Master of Arts, *subject to the general regulations of the University.*

TUITION AND FEES

Students taking two or three courses pay a fee of thirty-five dollars; those who desire to take but one course may do so upon payment of a fee of twenty dollars, which entitles them also to all special privileges of the Summer School. The same charge is made whether students register as auditors or for credit. Students who take a fourth course for credit, will pay an additional tuition fee of $10, to be paid as a separate item by the end of the second week of the term. For a statement of fees for Field Trips conducted by the Summer School, see pages 15 and 16.

Students registering in the Summer School who have not previously been enrolled in Clark University are required to pay a matriculation fee of five dollars. The fee is paid only once and is not returnable.

Tuition may be paid at any time before 5 P.M. of Friday, July 6. Checks should be made payable to Clark University.

BOARD AND ROOMS

A few rooms are available in the Faculty House. Reservations may be made by correspondence. Good rooms may be had in private homes near the University at $3 to $5 per week. Meals, at moderate prices, may be secured in the vicinity of the University. A list of desirable rooms will be sent on request.

THE BACHELOR OF ARTS DEGREE

Students who have been admitted to the Undergraduate Department of the University may secure not more than six semester hours of credit toward the Bachelor of Arts degree in any one summer session on condition that permission be secured in advance from the College Board and that programs of study be approved by the Dean of the College.

THE BACHELOR OF EDUCATION DEGREE

The degree of Bachelor of Education is offered primarily to teachers, both men and women. A two-year Normal School course or its equivalent is a prerequisite for admission to candidacy and a year of teaching experience is a prerequisite for the degree.

Candidates for this degree may earn the necessary residence credit by attendance at the Summer School or by enrolling in extension courses offered at the University during the regular academic year, or in such regular university courses as may be open to them.

Women who are candidates for this degree will usually not find it possible to secure a full program of courses during the regular academic year.

A normal program for Summer School students consists of three courses, each yielding two semester hours of credit. Two extension courses, each yielding two semester hours of credit, constitute a normal program for teachers in service. Credit toward the degree may also be earned through the Home Study Department and in connection with the field trips offered by the Summer School, but credit so earned may not be used to reduce the minimum residence requirement of 30 semester hours.

Courses designated as "College Courses for Adults" are offered during the regular academic year on Saturday morning and on certain afternoons for the convenience of candidates for this degree who are teaching in or near Worcester. By taking advantage of these courses it is possible for a teacher to complete in four years the equivalent of a year of study in residence.

The general administration of regulations applying to the degree of Bachelor of Education is lodged with the Committee on College Courses for Adults and

Special Students, for which the secretary, Professor C. E. Melville, acts as the administrative officer in dealing with students. The regulations applying to this degree are summarized in the following paragraphs.

1. ADMISSION REQUIREMENTS. The completion of a standard two-year course in a Massachusetts State Normal School, or the reasonable equivalent of such a course.

2. REQUIREMENTS FOR THE DEGREE:
   a. At least one year's teaching experience.
   b. At least 30 semester hours of credit earned *in residence* at Clark University.
   c. 120 semester hours of college credit, including advanced standing based upon the admission requirements.
   d. Requirements in particular subjects:
      (1) Six semester hours in Psychology or Education taken after the completion of the two-year Normal School course.
      (2) Six semester hours of Laboratory Science taken after the completion of the two-year Normal School course.
      (3) Ten semester hours of English, which may be taken in whole or in part in the Normal School course.
      (4) Ten semester hours in foreign language, which may be taken in whole or in part in the Normal School course.
      (5) Twelve semester hours of Economics, Geography, Government, History, or Sociology, at least six of which must be taken after the completion of the two-year Normal School course.

3. STANDARD OF SCHOLARSHIP. The same standard of scholarship is required of candidates for this degree as for the degree of Bachelor of Arts.

4. ADVANCED STANDING:
   a. Credit of 54 semester hours will normally be given for the standard two-year course in a Massachusetts State Normal School. This may be reduced in special cases.
   b. Credit will be allowed for work done at other Universities, Colleges or Normal Schools, subject to reasonable regulations.
   c. Not more than 30 semester hours credit may be allowed for home study or extension courses other than the extension courses offered by Clark University expressly for candidates for this degree. The acceptance of any work of this type is subject to the approval of the secretary of the Committee.

5. LAPSE OF CANDIDACY. By vote of the committee on the degree of Bachelor of Education candidacy terminates automatically whenever for a period of two years or more a candidate has failed to complete any course in Clark University yielding credit toward the degree. A candidacy terminated under this rule may be renewed by action of the committee, and such renewal may involve a revision of allowances previously made, both in respect to total credit, and requirements in particular subjects.

Inquiries regarding the degree of Bachelor of Education should be addressed to the Recorder of the University.

SPECIAL COURSES FOR TEACHERS. In keeping with its long established policy, Clark University offers a series of College Courses for Adults designed both in respect to content and time of meeting for teachers in the public schools of Worcester and the surrounding region. These courses are also open to the general public. When occasion arises the subject of aims and methods of teaching is treated in some of these extension courses.

THE MASTER OF ARTS DEGREE

A student admitted to full graduate standing may satisfy the minimum residence requirement for the Master of Arts degree by attending six summer sessions of six weeks each, and taking a normal program made up exclusively of graduate courses approved by the department in which the student is seeking the degree. The minimum residence requirement may be met in five sessions, if the Master's thesis is prepared outside summer session periods under the supervision of the department in which the student is a candidate for the degree. In this case, the degree will be conferred not earlier than the June commencement following the completion of the fifth summer session of attendance.

Persons who wish to become candidates for the Master's degree beginning with a summer session, should take up correspondence promptly with Dr. Clarence F. Jones, Secretary of the Graduate Board, Clark University. Application blanks with directions for making application for graduate standing will be furnished on request by the Secretary of the Graduate Board. Formal admission to graduate work by the department in which the student seeks the degree should then be secured in advance of the opening of the summer session.

A person who has already entered upon graduate work should arrange his program for the summer session of 1934 by correspondence with the department in which he is a candidate for a degree.

EXCURSIONS

Four Saturday field studies will be conducted as a part of the regular Summer School program. Other trips will be arranged to meet the wishes of students.

THE SUMMER SCHOOL ASSOCIATION

The Summer School Association was organized by the students at the first session of the Summer School in 1921. The Association promotes the social activities of the school during the summer session and holds an annual reunion during the year. Every student is urged to participate in the activities of the Association as they develop during the term.

NEW YORK STATE CLUB

The New York Club of Clark University was organized in 1928. It will hold its first meeting of the summer session of 1934 at 2 P.M., Monday, July 2, in Room 120, first floor of Jonas G. Clark Hall. All members of the Summer School from New York State are requested to be present.

SUMMER TOURIST RAILROAD RATES

Summer Tourist Railroad Rates from Chicago and places west of Chicago will probably be in effect from June to October. Inquiry should be made at local ticket offices.

THE SUMMER SCHOOL ROSTER

The names of students of the Summer School, with their home addresses, will be found in the General Catalogue of the following academic year. Students who desire a list should write to the University after February 1, of the following year.

DEPARTMENT ANNOUNCEMENTS

The right is reserved to withdraw any course listed in the event of a registration too small to justify its being given.

Courses marked with an asterisk (*) are primarily for advanced students.

GEOGRAPHY

The courses in geography announced here include undergraduate and graduate courses in the several phases of the subject. Certain fundamental courses are offered every summer. Others are given every other year or occasionally.

Students whose assignments involve the preparation of maps or who wish to practice map-making will appreciate the opportunity for special help by the cartographer, Mr. G. H. Burnham, in the geography workroom.

***SS28. Geography in Education for Special Teachers.** Members of the class work on individual problems and report progress. Units of study, specific problems of next year's teaching, courses of study in elementary grades, junior high school, senior high school, and teachers college, and objectives in geography, are some of the topics that have been treated by students in this course. Dr. Ridgley.

Daily, except Saturday, at 8.

SS181. The Teaching of North America. Subject matter and method of presentation of the Geography of North America suitable for elementary school and junior high school levels. Dr. Ridgley.

Daily, except Saturday, at 9.

SS12. Weather and Climate. A study of the weather elements by observation and use of instruments; interpretation of the daily weather map; classification of climates suitable for teaching purposes. Dr. Ridgley.

Daily, except Saturday, at 10.

SS14. Economic Geography. A study of the relation of physical and economic conditions to the fishing, grazing, farming, lumbering, mining and manufacturing regions of the world. Dr. Jones.

Daily, except Saturday, at 8.

***SS392. Field Studies.** An intensive field study of a small locality, primarily for candidates for the degree of Master of Arts in Geography; open to advanced undergraduates by special permission. Dr. Jones.

Monday and Friday afternoons, 1:00 to 5:00, in the field.
Thursday afternoons, 2:00 to 3:00, discussion.

SS11. Saturday Field Trips. Four Saturday trips by motor coach for study of New England Upland and the Harvard Forest; the Clinton-Harvard apple growing district and Mt. Monadnock; Boston and environs; Blackstone Valley. Required course for all students taking SS16, and recommended for students enrolled in *SS27, *S285, and other courses in geography and history. Dr. Ekblaw.

One hour of credit. Two hours credit for SS16 and SS11 combined. All day Saturday.

SS16. Geography of New England. A lecture course with library readings presenting the geographic influences affecting the culture, history, and literature of New England. Saturday Field Trip, SS11, required. Credit for SS16 and SS11, combined, two hours. Dr. Ekblaw.

Lectures 2 to 4 p.m. on Tuesdays; Field Trip all day Saturday.

***SS27. Influences of Geographic Environment.** A survey of man's occupancy of the earth to determine the part that geographic influences have played in shaping the movements of peoples, the course of civilization and racial development, and the destiny of nations. Dr. Ekblaw.

Daily, except Saturday, at 9.

***SS285. Geography of Europe.** A regional analysis of the geographic bases of the internal and international problems which Europe faces today, particularly in their relation to American affairs. Dr. Ekblaw.

Daily, except Saturday, at 11.

SS190. Mathematical Geography. A study of the earth's form, size and motions; its relations to the other bodies of the Universe; latitude and longitude; seasons; zones; tides; almanacs; time; calendars; changing length of day and night with practical applications to map making, surveying, navigation and other phases of every-day life. Mr. Burnham.

Daily, except Saturday, at 12.

SS192. Map Interpretation and Appreciation. An analysis of various types of maps and methods of making them. The relation of maps to the globe; a study of map terms, map symbols, map scales, place relationship; interpretation of related maps. A course designed to aid teachers in using maps more effectively in the classroom. Mr. Burnham.

Daily, except Saturday, at 11.

***SS30. Seminar in Geography.** An organized discussion of research problems and theses. Attendance is required of all students preparing theses, or conducting research. The Geography Staff.

Wednesday, at 3.

***SS34. Research in Economic Geography, or in Regional Geography.** For properly qualified students. Dr. Jones.

***SS37. Research in Human Geography, or in Geography of Europe.** Dr. Ekblaw.

GEOLOGY

SS1. Physical Geology. About one-third of this course will be spent in studying common minerals and rocks. The remaining time will be spent in a scientific study of the origin of scenery through the work of wind, water, ice, and sub-surface forces. Instruction in the use of topographic maps will be included. Laboratory fee of $2.00, payable to the Bursar. Dr. Little.

Four lecture-recitation periods at 8, and a Thursday afternoon laboratory period weekly.

HISTORY

SS111. History of Europe since 1830. A survey course in which the second volume of C. J. H. Hayes, *A Political and Cultural History of Modern Europe,* will be used. Open to graduate students with special permission. Dr. Lee.

Daily, except Saturday, at 9.

***SS22. European International Relations 1870–1919.** A study of the origins and diplomacy of the World War. Dr. Lee.

Daily, except Saturday, at 11.

SS101. American History since 1840. A survey course emphasizing the newer point of view in the study and writing of history. Dr. Billington.

Daily, except Saturday, at 12.

***SS201. Social and Intellectual History of the United States, 1607–1825.** This course will trace the evolution of American life through the Colonial period to the close of the Revolutionary epoch. Economic movements, humanitarian reforms, and religious developments will be stressed as well as artistic and intellectual progress. Dr. Billington.

Daily, except Saturday, at 10.

***SS354. Research in the History and International Relations of Europe.** For properly qualified graduate students who wish guidance in the study of some special field of interest. Dr. Lee.

***SS355. Research in the History of the United States.** Dr. Billington.

ECONOMICS AND SOCIOLOGY

SS2. Problems of Economics. A study of specific economic problems such as banking, taxation, international trade and tariffs, transportation, agriculture, etc. The topics selected serve not merely to illustrate economic principles but also to build up a better understanding of contemporary economic society. The course is complementary to Economics SS1 offered in 1933. Dr. Brandenburg.

Daily, except Saturday, at 11.

***SS22. Labor Problems.** An historical and critical study of the genesis of wage earning groups, laborers' and employers' organizations, collective bargaining, women and children in industry, minimum wage, social insurance, and other human problems growing out of our industrial organization. Dr. Brandenburg.

Daily, except Saturday, at 10.

To the Registrar:

English SS 7 - American Drama - is a study of a chronological list of twenty-five American plays with additional readings in the history of American Drama. The course does not in any way duplicate the course in modern drama given in 1933.

Robert S. Illingworth

July 6, 1934

Soc. SS 27 - Educational Sociology. Dr. Barnes

***SS32. Research in Selected Economic Problems.** For properly qualified graduate students. Dr. Brandenburg.

SS11. Principles of Sociology. Analysis of the broad field of human relations and the principles of social behavior. Varied readings and critical discussions. Dr. Barnes.

Daily, except Saturday, at 8.

~~***SS25. Social Problems.** A quantitative and qualitative study of disturbed human relations with critical analysis of fundamental causes and of scientific prevention and treatment. Projects, readings, and discussions. Dr. Barnes.~~

~~*Daily, except Saturday, at 9.*~~ Not given - SS 27 substituted for it.

ENGLISH

SS7. American Drama. A survey of American Drama with emphasis upon the important dramatists of today. Professor Illingworth.

Daily, except Saturday, at 10.

SS8. Modern American Poetry. Beginning with a study of Walt Whitman the course will consider the modern poets under the following headings: Journalistic Poets, Dialect Poets, Regional Writers, and the Best of the Moderns. Professor Illingworth.

Daily, except Saturday, at 11.

Dramatics: During the session at least one three-act play will be presented, and a one-act play as a part of the Commencement program. Students interested in this work should report to Mr. Illingworth.

Note: During the summer session, Professor Illingworth will give a series of Lecture Recitals at 7:30 on Tuesday evenings, on the best books of the year, including the Novel, Poetry, Biography, and Drama. These recitals are open to all who are interested. Meetings in the Union Room, first floor of Jonas G. Clark Hall.

EDUCATION

***SS22. Secondary Education.** Problems and principles of secondary education. After a brief survey of the history of secondary education in the United States, the remainder of the course will be given to the aims, objectives, curriculum, and organization of the secondary school. Lectures, readings, and class discussion. Professor Illingworth.

Daily, except Saturday, at 9.

FRENCH AND GERMAN

While no provision is made for regular courses in French and German, students who wish to pursue either or both of these languages during the Summer Session may make arrangements to do so. A skilled instructor is available for lessons in French and German to individuals or groups at moderate cost. The lessons, if desired, will be given at the University. The work in these languages will be adapted to the individual needs of the students whether for elementary or advanced work, or for a reading knowledge of scientific works. Further information will be given on request.

HOME STUDY COURSES IN GEOGRAPHY

Clark University is now offering Home Study Courses for the benefit of those interested in the study and in the teaching of geography. These courses may be begun at any time and pursued as rapidly as opportunity for study affords. Many teachers pursue these home study courses during the school year while teaching. Other teachers who have not found convenient opportunity to attend summer school have made rapid progress in home study work while at home during the summer vacation. Each course carries three semester hours of college credit toward the Bachelor's degree at Clark University. The tuition fee for each course is $18. As soon as the tuition fee is received the complete set of lessons is forwarded. Sample lessons of one or two courses will be sent on request. Address: Clark University, Home Study Department, Worcester, Massachusetts.

The following Home Study Courses are now ready:

Courses on the Teaching of Geography

1. The Teaching of Geography in the Elementary School.
1a. The Teaching of Geography Based on the New York State Syllabus, Grades 3, 4, 5, and 6.
2. The Teaching of Home Geography and World as a Whole.
2a. The Teaching of Third Grade Geography of the New York State Syllabus.
3. The Teaching of North America.
4. The Teaching of South America, Europe, and Asia.
5. The Teaching of Geographic Factors and the United States in Its World Relations.
5a. The Interpretation of the Globe, Maps, and Graphs.

Academic Courses in Geography

6. Industrial and Commercial Geography.
7. Geography of North America.
8. Geography of South America.
9. Geography of Europe.
10. Home Study Course for European Travel.
11. Geography of the Eastern Continents.
12. The Physical Geography of the Lands.
13. Fundamentals of Climate.
14. Climates of the World.
15. Climatology of the United States.
16. Mathematical Geography.
17. Graphics and Cartography.
18. Special Studies in Geography.

Special attention of teachers and students who cannot attend Summer School is called to the opportunity offered by these home study courses to secure the same amount of college credit through home study courses as through the regular summer school period. Two home study courses give the same amount of college credit as the regular program of the summer school session. By enrolling early for a home study course, plans can be made for prompt and steady progress immediately at the beginning of the summer vacation. The completion of one or two home study courses during the summer can be readily accomplished.

FIELD TRIPS DURING AND AFTER THE SUMMER SESSION

The field trips of 1933 are a continuation of a plan inaugurated by Clark University Summer School in 1924, for the study of geography and history out-of-doors.

Appalachian Highlands Field Trip from Oswego, New York. Saturday, August 11, to Friday, August 24, 14 days.

This is the sixth field trip of the Clark University Summer School planned especially for the teachers of New York State. This trip, as in previous years, will be conducted by Mrs. Isabelle K. Hart, Instructor in Geography, State Normal School, Oswego, New York. The itinerary includes the Finger Lakes, Harrisburg, Gettysburg, Shenandoah Valley, Endless Caverns, Natural Bridge, Asheville, Richmond, Charlottesville, Washington, Baltimore, Wilkes-Barre and Scranton.

Credit for satisfactory work, two semester hours. Cost of trip: Transportation $60, tuition $15. Hotel reservations will be made for the party. The total necessary expense will probably not exceed $150.

An illustrated folder with detailed information of the trip will be sent on request. Address Clark University Summer School, or Mrs. Isabelle K. Hart, State Normal School, Oswego, New York.

Mediterranean Field Trip. July and August. This trip will be conducted by Dr. Samuel Van Valkenburg, Professor of Geography, Clark University. The itinerary includes

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To the Clark University Summer School:

I wish to be enrolled as a student in the Summer School for 1934, and enclose with this the Registration fee of two dollars.

Name ....

Address ....

Date ....

Occupation during the past academic year ....

....

....

Graduate of what college, normal school, or other educational institution, with date of graduation?

....

....

....

(OVER)

the chief ports and regions of the Mediterranean Lands. The time will be about eight weeks. Cost of trip from New York back to New York $686. College credit for six semester hours will be allowed for satisfactory work. For full information and an illustrated folder, write to Dr. Van Valkenburg.

Autumn Field Trip. September 12 to December 12, 1934, 13 weeks. A comprehensive field course given by the Geography Staff of Clark University School of Geography. Field camps for intensive study in Finger Lakes Region, Shenandoah Valley, Great Smoky Mountains, Birmingham, New Orleans, Florida, Augusta, Chapel Hill, Washington. On completion of field reports, one full semester of residence credit in geography. Open to qualified graduate students. Transportation and living expenses from Worcester back to Worcester, $300. Write for full information and illustrated announcement. Address President Wallace W. Atwood, Clark University.

PUBLICATIONS FOR GEOGRAPHY TEACHERS

Clark University has published three pamphlets of special value to teachers of geography.

1. Frederick K. Branom: *A Bibliography of Recent Literature on the Teaching of Geography*. More than 600 references. 25 cents.
2. Ella B. Knight: *A Bibliography of Geographical Literature for Elementary Grades and Junior High School*. More than 500 choice books listed. 25 cents.
3. Douglas C. Ridgley: *A Study of Children's Learning about Places.* A monograph with a classified list of 1200 places. 50 cents.

These three publications will be sent to any address, postpaid, for 80 cents in a single order.

4. *Economic Geography*, a quarterly journal published by Clark University. $5.00 per year.

TENTATIVE LIST OF SUMMER SCHOOL COURSES WHICH APPLICANT DESIRES TO ENTER

....

....

....

....

....

(Describe by Subject and Number, i.e., Geography 101)

Have you been accepted as a candidate for a degree? ....

At what institution? .... What degree? ....

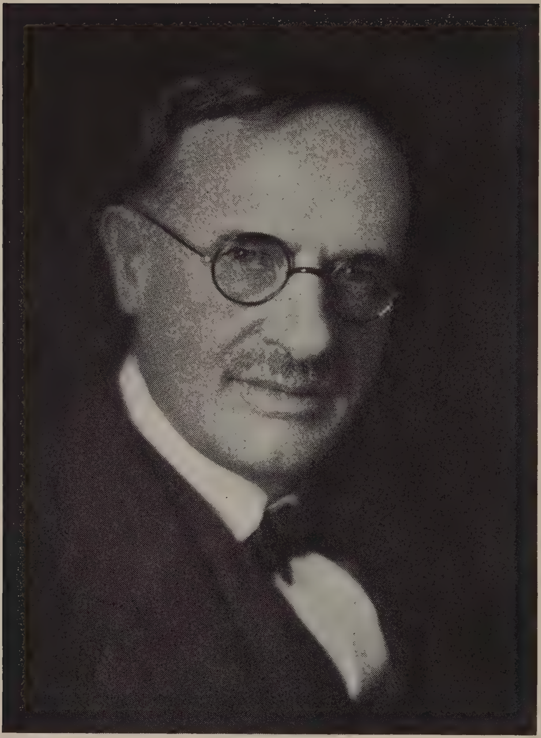
Have you ever attended the Clark University Summer School? ....

If so, what was year of last attendance? ....

INAUGURAL
HOME-COMING CELEBRATION
and the
AWARD OF THE FIRST
DISTINGUISHED SERVICE MEDAL
to
DR. CHARLES H. THURBER

DISTINGUISHED SERVICE MEDAL

CLARK UNIVERSITY LIBRARY PUBLICATION



CHARLES H. THURBER
Clark University, Ph.D., 1900
Trustee, Clark University since 1913
President, Board of Trustees since 1919

WELCOME

Mr. Chairman, President Atwood, Dr. Thurber and Friends:

It is a happy privilege that the Committee has accorded me to welcome the Alumni of the University here tonight. Therefore in behalf of President Atwood and the Trustees I do so welcome you formally to this first inaugural homecoming festivity.

To some here it is a far cry to their days at the college, but judging by the number of "old boys" here tonight their loyalty increases with the passing years.

There are possibly some who haven't been back to their Alma Mater at all since graduation, others very infrequently, while those of us in the city or close by are regular visitors both officially and socially.

This is an occasion for renewing old friendships, for learning first hand about our University, policies and plans in which you will be interested. We invite you to make the most of it—ask all the questions you can think of—meet the President, the trustees, and the faculty—they are all represented here tonight, and when you return to your duties may your interest and loyalty to Clark take on a new enthusiasm.

Your University speaks to you in the words of John Burroughs, in "Waiting."

"Serene, I fold my hands and wait,
Nor care for wind nor tide nor sea;
I rave no more 'gainst time or fate,
For, lo! my own shall come to me.

* * * *

"The stars come nightly to the sky,
The tidal wave unto the sea;
Nor time nor space, nor deep nor high,
Can keep my own away from me."

Walter G. Butler, '12,
President, Clark Alumni Association.

THE PRESENTATION TO DR. CHARLES H. THURBER

By the Clark Alumni Association of the First Distinguished Service Award Clark Night, March 3, 1934

Mr. Chairman, President Atwood, President Thurber, and Ladies and Gentlemen:

The satisfaction that comes from service unselfishly and unstintingly given is the richest reward that we may receive for having done our duty well and faithfully. Life is our opportunity for service, and the more fully we realize that opportunity and render that service the richer our reward, our satisfaction with life. We all face equal opportunity and the way in which we measure up to it is the gauge by which we may appraise our worth, our usefulness.

Some of us may serve in leadership, but most of us must serve in the ranks; some of us may serve as masters but most of us must serve as apprentices; some of us may serve in great causes, but most of us must serve trivially; some of us may serve as teachers, but most of us must serve as students; some of us serve in word or thought or deed, or in love or loyalty or allegiance; some of us serve actively, some passively; some of us serve who must "only stand and wait."

To you, President Thurber, it has been given to serve largely and wisely in all these ways, and we acknowledge tonight our burden of gratitude to you, as we pay tribute to the unselfishness and diversity of your service. We do you the homage that your breadth of vision, strength of purpose, and loveliness of personality in service of Clark have shown us you deserve.

Ladies and Gentlemen, President Charles H. Thurber was born in that loveliest section of New York, the Finger Lakes Country, and lived as a boy there and in the equally lovely mountain land of northwestern New Jersey. After receiving his education he became a member of the first faculties of the University of Chicago, renowned for their power and influence in education. He served as director of the Morgan Park Academy. He founded and edited the *School Review.*

He received his Ph.D. degree from Clark in 1900 and in 1913, twenty-one years ago, was chosen the first alumnus trustee. In 1919, fifteen years ago, he was elected President of the Board of Trustees, the capacity in which he has served Clark ever since. In memory of his mother, he has founded a students' loan fund; he has supported Clark's publications; in many ways of which we do not know he has substantially aided our work.

Twenty years ago he was made Editor-in-Chief of Ginn and Company. In that position he has rendered education and citizenship in America incalculable service by the wisdom and the courage with which he has directed its policies and guided its activities in the most advanced way. He has moulded the character of American youth and American thought.

In presenting this award to you this evening, President Thurber, we do so in full appreciation of the great debt of loyalty and love we owe you for all that you have done for us of Clark. By your sound judgment, your wide vision, and untiring and faithful service you have given Clark its reputation for learning, and eagerness in search for further learning; its traditions of high intellectuality and scholarship, and integrity in thought and research; and its inspiration for future progress. You have helped to bring to Clark our superb faculty, to bring out the best there is in us. You have stood staunch for high ideals of personality, training, and achievement. You have made us all servants of Truth!

President Thurber, it is my great privilege and signal honor, generously delegated me by the alumnus body of Clark University to bestow upon you this first award for distinguished service to Clark by one of her own sons and daughters. The award for your distinguished service is but our recognition of all that you have been, and meant to Clark, and to us as her children. As I pin the medal upon your coat, I do so with the gratitude and love of all our little Clark cosmos, faculty and students, alumnae and alumni. I know that every Clark man and woman feels sincerely that you deserve it, that you have won it by devotion to Clark.

It is but a symbol, President Thurber, though a symbol of service that you have rendered, of real love that we bear for you; for after all, to paraphrase Kipling's immortal words,

"Only the Master may praise you and none but the Master may blame,
For you have not worked for money and you have not worked for fame,
But just for the joy of the duty, and in your own particular sphere,
You have done the task as you've seen it, for the God of things as they are."

We all greet you.

W. Elmer Ekblaw, Ph.D., '26.

ACCEPTANCE BY DR. CHARLES H. THURBER

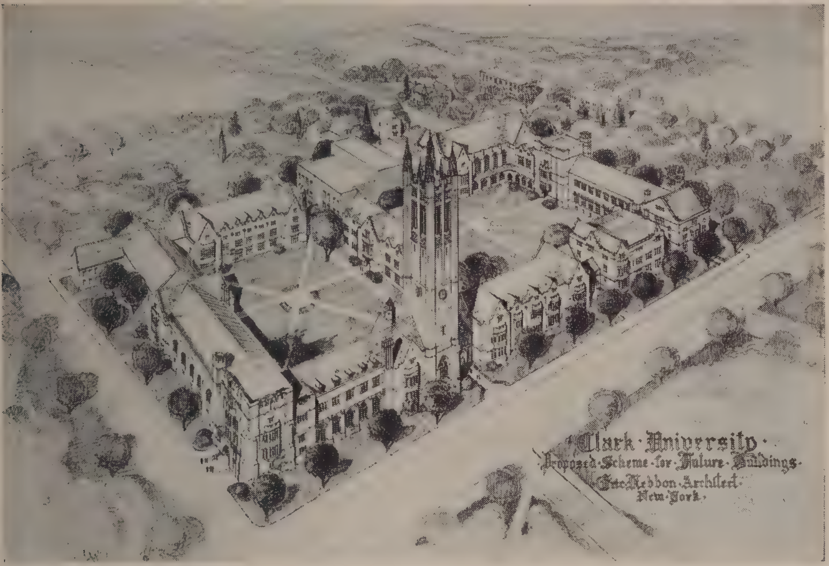
of the First Distinguished Service Award Presented by the Clark Alumni Association
Clark Night, March 3, 1934

If there were a newspaper report of these proceedings at this point it would almost surely read "the recipient of the medal acknowledged the honor paid him in a few graceful, well chosen and," perhaps, "eloquent remarks." Following all precedent these remarks should begin "I am acutely conscious that the little I have been able to do does not deserve the high honor you have paid me." I am not going to begin that way. I am not going to say that I do not deserve this honor; nor am I going to say that I do deserve it.

To me, at this moment, it is not important what I do or do not deserve. The important, startling fact is that you thought I deserved it. It was in your minds and your hearts to give me this tribute. For my obsequies, which I do not expect to find especially exciting, you might well have sent a lovely wreath. That would have given me small pleasure. You have chosen rather to tender me this tribute here and now when I can appreciate it in its perfection. That makes the event significant, beautiful and, I think you will understand me when I add, rather overwhelming.

It may interest and amuse you to learn that I was not only the first alumni trustee of Clark University, but also the first trustee of Clark University to be elected "on suspicion." By law the Trustees of Clark University are a self-perpetuating body and membership is presumably for life. Nothing is said about good behavior! There had been a lot of miscellaneous talk about having alumni representation on the Board in which talk I probably joined. But I had no thought that I would be "it." So I was surprised to receive a pleasant letter from Mr. A. George Bullock, then president of the Trustees informing me that I had been elected a trustee for a five-year term. Since trustees of educational institutions are commonly elected for a definite period and I did not then know that the rule at Clark was election for life, I was not aware of the unique distinction conferred upon me by election for a five-year probationary period. So you see as you to-night have singled me out by making me the first recipient of this medal the Trustees arranged for me a special sort of membership in the Board which no other person ever has held or probably ever will hold. Later I was reduced to the level of the other members of the Board and made a common, ordinary member for life. When I had the pleasure of welcoming Treasurer George Mirick and later Secretary Leon Felton to the Board they were elected without suspicion. Now we are three alumni on the Board, three out of nine (all for life), so the Board has more than a tinge of alumni color.

It would be a joy to talk at length to this fine body of Clark graduates about the problems and the progress at Clark. But the play will not much longer wait. This has been a wonderful evening. Shining through it is the spendor of that new Clark spirit which is now very definitely the source of new hope and new strength. I am grateful beyond expression for your gift to me; but to be entirely frank with you my greatest satisfaction comes from a realization of what this occasion in its entirety means for the future of this institution in which we all have a vested interest. Clark has been looked upon with sentiments running the gamut from some less noble to admiration and awe. But these are not enough. "The greatest of these is love," and this meeting proves that Clark is loved.



CLARK CAMPUS OF THE FUTURE

General plan proposed for the architectural development of the main campus of the University. In the new buildings provision has been made for: (1) an extension to the Library, (2) a Chapel or Assembly Hall, (3) an additional building for the natural sciences, (4) a new Gymnasium, (5) a Graduate Residence Hall, (6) a center for administration in the basal portion of the tower on Main Street, and (7) an expansion of the space for college and graduate classrooms and for offices for instructors. The completion of the entire plant would require an expenditure of approximately two million dollars.

Charles H. Thurber, Ph.D. '00,
President, Board of Trustees, Clark University.

GREETING

Mr. Toastmaster, President Atwood, Trustees, and Graduates of Clark:

I have been asked to tell you a little about our alumnae organization. I think those who planned the program must know one of woman's weaknesses as I have been definitely limited as to the length of time I may talk to you, so I shall try to be brief.

We are really very young—I mean our organization,—in fact only about two and one half years old. Shortly after Mr. Illingworth came to be Alumni Secretary he suggested that the women form an organization of their own. Several of us thought the suggestion good—not that we felt that the men of the Worcester County Alumni group did not wish us as members of their group nor that they gave us anything but the most courteous and friendly treatment when we attended any of the Alumni gatherings—but, having no class affiliations, our study extending in most cases over a longer period of time than the usual college course, we thought that we might bring about a closer union of the women graduates, create stronger ties with the University and its faculty, and be of more service to Clark than we might be able to be individually.

Accordingly in the Fall of 1932 we held our first large gathering, made plans for our association and elected Miss Marietta Mathews as president with an able executive committee to help her. I really feel that it should be Miss Mathews telling this story as it was largely through her efforts and those of her committee that our organization was created and grew to what it is today. At present we have about one hundred active members.

The first year was given over largely to matters of organization. The proceeds from a small bridge party, together with a membership assessment of twenty-five cents, began a fund for us, to which we have since added such substantial amounts that we have been able to support students in the college to the extent of almost $300.00.

Last November we elected a new set of officers. We hope to establish a permanent Scholarship Fund which we shall add to from year to year and to have to think less about finances. I can say for myself, and I think I may for the other alumnae, especially those of the B.Ed. group, that in doing anything we can for Clark we are showing in a small way a little of our appreciation to Dr. Atwood, the Trustees and any others who helped to make it possible for us to receive a degree from Clark.

MARGARET DEWAR, B.E. '30,
President, Clark Alumnae Association.

GREETING

Mr. Toastmaster, Honored Guests, Ladies and Gentlemen:

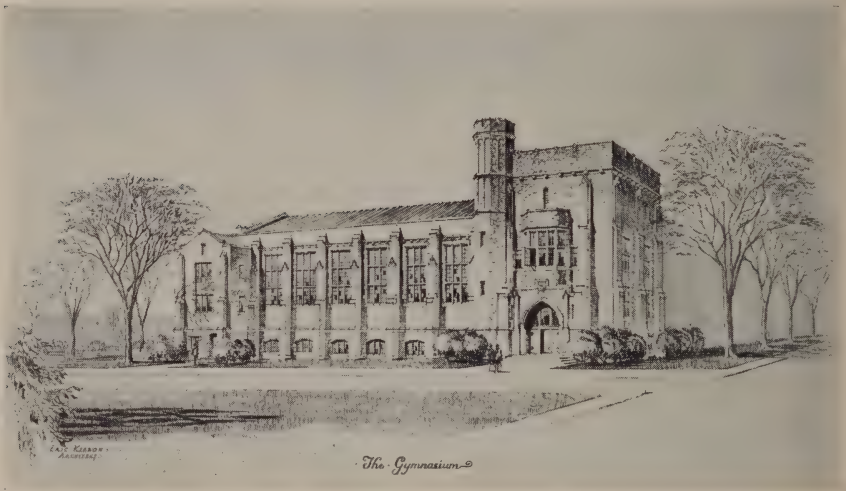
As an alumnus of twenty-one years' standing, and President of the Worcester County Association, I find it a pleasure and a privilege, both, to address this, the greatest gathering of interested, loyal, Clark alumni in the history of the institution. You and I have enjoyed more than words can tell the sentiments so ably expressed by the previous speakers. Your very presence here in such large numbers denotes both the quality and quantity of the Alumni Association. It is a double tribute to the—may I use the word "precious"—old institution—Clark—our Alma Mater.

It is a glowing compliment to the Trustees—it is something more—and dearer. It is an affectionate testimony, both mute and eloquent, to the rather calm, dignified, modest dynamo who honors us by being our President. So to you, Dr. Atwood, and to you, the Trustees of Clark University, in behalf of the hundreds of alumni here gathered, I wish formally to express deep appreciation of the depth of thought and richness of spirit which prompted your most generous invitation to this gala event. We all thank you for planning this auspicious occasion. Moreover, we thank you for the sponsorship and culture of an intensity of alumni spirit at Clark, which some day may be equaled in strength by that of no other university. As a personal reaction, this inaugural celebration registers to me definitely as a gracious gesture that fairness and friendliness which can come only from a great man's great heart.

And I can read, I feel sure, in your eager faces, a real recognition of and a sincere response to this kindliest demonstration of paternal affection. Happily, oh most happily, our institution is in able hands. Its administration is functioning capably. Our esteemed Dean is an outstanding and active figure. The faculty are exceptionally able and popular. And to crown it all, when a brilliant mind ruled by a tender heart and backed by a strong character fills the President's chair, the inevitable result is the enviable condition found right here—right now.

The college student body has grown rapidly both in numbers and in individual calibre. A wholesome mutual respect and sympathy between students and faculty exists. Intense interest in scholastic achievement abounds. Three hundred alumni are in the process of making; in one sense, that of loyalty to the college that is nourishing and making these newer men, it seems to me that there should be a closer bond of ideals between undergraduates and alumni. This age of too liberal thought, perhaps, and over-freedom of speech, fosters opinions naturally sometimes at variance. Of such differences is the spice of debate extracted. But when unwarranted, caustic, destructive criticism of the administration is thoughtlessly published by mere students, inexperienced in control and direction, we as older brothers, perhaps, may sound a timely bit of valuable advice and warning.

The time to begin to make a good alumnus is when he is a student in college. May, therefore, the foregoing alumni tribute be accepted and interpreted in rebuke to those less mature adolescent self-styled editors, who, through the expression of a swollen ego are wont to attack and destroy the constructive thought and effort being directed by the administration and the alumni towards the building up of a greater consciousness of that much-desired Clark spirit and idealism. In spite of this, it is safe to say, however, that within the past decade Clark has been reborn. New life and ideas have been instilled. A new fire burns. The sciences flourish. Fine Arts are conspicuous. All this breeds a healthy respect from alumni and public alike. All these results of conscientious direction and effort must be a source of tremendous satisfaction and pride, to that gallant man of courage, force and foresight, our skipper at the helm, who steers so capably—the grand man whom we hail tonight—to him we pledge our loyal support—Prexy Atwood.



THE NEW GYMNASIUM

The erection and equipment of this building will cost about two hundred thousand dollars.

Frank Adams, '13,
President, Worcester County Alumni Association.

PRESIDENT'S ADDRESS

Mr. Chairman, Members of the Alumni:

I was entirely unprepared for the remarks to which we have just listened from Mr. Adams. I am somewhat embarrassed and confused because of the extravagance of some of his statements, but I must frankly admit that it gives me a new feeling of confidence and of courage to press on with my work for Clark. During the fourteen years that I have been here many of you have passed across the platform to receive your diplomas from my hands. Many of those among the Alumnae have received their diplomas in the grove adjoining my home during some quiet summer evening when Japanese lanterns shed a soft glow over an academic occasion which marked for each graduate the successful completion of a task which she had set for herself.

I am delighted to see so many degree holders of Clark together. This is the largest aggregation of bona fide Alumni of this institution that I have ever seen gathered together at one meeting. It must give you a feeling of strength. We have listened to several wonderfully good addresses, and as the meeting has proceeded we have become conscious of the fact that the Alumni organization at Clark has passed the stage of youth, has gained notable strength and shows distinct signs of maturity. We realize now that there is something behind this institution more meaningful than anything which the founder, the Trustees, or the faculty have contributed. There is a body of loyal men and women deeply appreciative of what this institution has done for them and deeply conscious of what they should do for that institution as the years pass. Conscious also that in their very acts of helping Clark they reap a hundredfold satisfaction and pride.

INCREASE IN ENROLLMENT

Our Graduate School is now overcrowded. In certain of the departments the number of applicants for admission has been double the number admitted. We are endeavoring to select with great care the best qualified students for admission into the graduate division of the University for we realize that the demands for highly trained specialists have decreased tremendously during the last three years. We recognize that there has been overproduction of highly educated men and women who wish to enter upon college or university teaching. The situation is exceedingly unfortunate. Disappointment has come, after years of sacrifice and serious endeavor, to many very able and to many brilliant young people. Enforced idleness to such men and women presents a situation which is certainly just as pathetic as the enforced idleness of men and women who rely upon the use of their muscles in rendering useful services to society.

In the undergraduate division our enrollment has increased in a very wholesome way. The Freshman class during the last two years has numbered about one hundred men. That represents an increase of nearly one hundred per cent over the number we had been receiving. For this growth in the college enrollment we are particularly indebted to the work of the Alumni Association and to the very efficient services of your executive secretary, Mr. Robert S. Illingworth. No man who has come to this institution in the last fourteen years has been so effective in making friends for Clark in the high schools and preparatory schools of New England. No man in the last two years has done more to make the young men who have come to Clark happy in their work and in their social life while at this institution. In visiting the schools in New England, eastern New York state and northern New Jersey, Mr. Illingworth has won the admiration and respect, and in many cases the affection of the students with whom he has come in contact. The principals or head masters have welcomed him until he is swamped with invitations to be their assembly speaker, or their speaker at Sunday chapel services. He has given hundreds of dramatic readings before students in the high schools of this part of the country. He has overworked in his efforts to build up the college which is dear to him as his Alma Mater and in which he has infinite faith. I congratulate the Alumni Association on having selected a man of such sterling qualities, such personal charm, and such loyalty to Clark.

There is nothing that you as members of the Alumni can do today which will help this institution more than the discovery of young men who will make desirable members of our college. Sit down and talk with such young men about their plans for going to college. Put Mr. Illingworth in touch with them.

The Trustees have been very generous to students of high scholarship and good character who wish to enter upon a college education with us. They have authorized the granting of fifty Jonas G. Clark scholarships to entering Freshmen who stand in the upper quarter of their respective classes in high school and who in character and in personality appeal to us as men who will be happy at Clark and profit by what we have to offer them. Each scholarship reduces the tuition charge by one half. We select, therefore, about fifty per cent of our Freshman class from men of the highest scholarship records in the high schools of this country. Many who are in that same high scholarship group come without asking for financial aid. Some who apply for a Jonas G. Clark scholarship and who are not fortunate enough to be included in the group nevertheless come to Clark and work on with the hope that they will soon win such a scholarship. No Jonas G. Clark scholar can hold that rank longer than one semester unless his scholarship record is excellent. Awards of Jonas G. Clark scholarships are available for a few in each of the upper classes, so that some men because of their high scholarship reduce the cost of their tuition by fifty per cent year after year.

SCHOLARLY ACTIVITIES

If this were an appropriate time I could fill in an hour by just listing the more notable activities of the faculty and of our advanced graduate students in research and publication. I want you to appreciate that these activities are of great significance to us as an institution. Our reputation throughout this country and abroad depends upon our output of well trained men and women, and upon our output of scholarly publications. The Clark University Press has an enviable reputation for its contributions in the field of psychology. The periodical issued by the staff in the field of geography goes to the libraries and to many individuals in each of the enlightened nations of the world. Many important volumes prepared by members of our faculty during the last few years have been published. Other books are well under way. In every field that we endeavor to enter, the members of our staff fill places of trust and responsibility.

THE PHYSICAL PLANT AT CLARK

Fully eight years ago I undertook, with a very able architect, the study of plans for the architectural development of the physical plant of the University. As the years passed various drawings were prepared of a quadrangular plan for the main campus, with the possibility of dividing it into two quadrangles. The two buildings which were recognized as most urgently needed were an extension to the Library and a new gymnasium. Plans for those two buildings were drawn, and they have been approved by the Board of Trustees. We recognize as Clark men, that our physical plant is woefully inadequate and not nearly as attractive as we could wish. The undergraduate students naturally long for a modern gymnasium. That is a sign of a strong, healthy state of mind as well as of body.

We were about to move forward with the plans for the erection of the two most needed buildings when the depression hit us. We have laid aside the program temporarily, but the hope remains, and tonight I cannot resist the temptation of urging upon you as members of the Alumni the desirability of trying to interest those who might help us to erect the gymnasium which we so sadly need. I hope that through some means we can secure that money.

As we adjourn this meeting I hope each one will feel a certain thrill in the fact that the Alumni of Clark has grown up, has matured, and has acquired notable power. I shall leave this gathering with the feeling that now there is an alumni loyalty behind this University that counts tremendously, and a body of men and women who in the end will take full charge and good care of this institution.

WALLACE W. ATWOOD,
President, Clark University.

CLARK LOYALTY

I have been asked to make a few remarks on the subject of loyalty. Loyalties to individuals or institutions, based upon experiences and sentimental attachments, are so personal and subjective in their nature that talking about them seldom intensifies or deepens their significance.

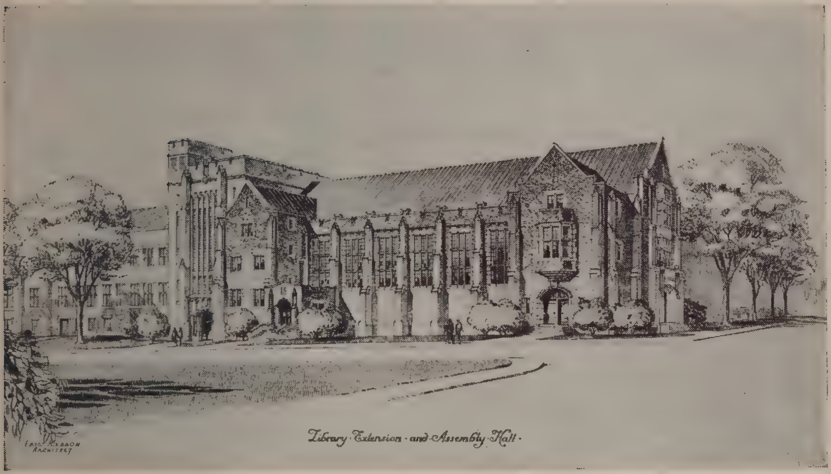
As we sit here together as alumni of Clark, each one of us has literally bundles of such loyalties, differing in kind and quality as our experiences and contacts, social and fraternal, have differed. With exceptions here and there they are of interest and value solely to us. They are a form of personal wealth about which we don't like to be ostentatious. It is not that personal kind of loyalty about which I wish to speak tonight.

I have in mind a higher loyalty, a loyalty that finds expression in hearty service, in friendship or love to a cause, in this instance the cause of education.

Last June it was my privilege to say something here at Clark concerning adventure in education. I tried at that time to make clear that the great challenge of the hour, greater than ever before, is the challenge of education, individual and social, and that life in America today beckons as an adventure in education; that for many of our leaders in civic and economic life it has become an adventure in re-education.

It was here at Clark that our intellectual curiosity was really first aroused on an adult level. For many of us Clark provided an opportunity which otherwise might well have been denied. It was through Clark that the opportunity for adventure in education was first revealed.

The uniqueness of Clark, of which we heard perhaps more in the earlier days, has changed here and there in its pattern. Fundamentally, however, Clark still stands unique in many respects. Among other things, Clark has continued to maintain as central in its educational philosophy that *how* a man thinks is more vital than *what* a man thinks. In its emphasis upon research in a few limited fields through small numbers of research students it has maintained standards of excellence unsurpassed. In its concern for individual growth and opportunity it offers much that larger institutions find it difficult to offer.


Library · Extension · and · Assembly · Hall ·
ARCHITECT

AN ADDITION TO THE LIBRARY
The completion of this building would require about two hundred and fifty thousand dollars.

You and I owe much to Clark. Clark officiated at our birth intellectually, so to speak. Through Clark our interest in, and concern, for, education flourishes.

Whatever contributions to the establishment of a finer social order that we may find it possible to make had their inception at Clark. To Clark then and through Clark to the cause of education we acknowledge a loyalty which expresses itself in friendly or loving service, to each in terms of his best ability to serve. I have every confidence that this loyalty will deepen in intensity and significance as the years go on and that Clark alumni everywhere will give increasing expression to that loyalty through personal service of one kind or another to the institution which more than any other single factor has made our lives purposeful and significant.

John Lund, '13.

GREETING

Mr. Toastmaster, Worthy President, Fellow Alumni:

This is indeed a most unexpected and undeserved surprise. I simply came over to join with the Clark group to add numbers to this splendid occasion. In introducing me, the toastmaster referred incidentally to Jimmy Walker. I am sorry to say that I do not have his gift of speech, nor many of his other accomplishments.

Speaking as I must without opportunity for formal preparation, I must content myself with a few remarks delivered impromptu. Anyhow, what I have to say comes straight from the heart. I would not want it otherwise, lest in the words of St. Paul my remarks may become like the tinkling of cymbals.

Nearly fifty years ago, longer than the memories of most of us here can recall, this distinguished institution was founded to pioneer in certain lines of original research, mainly Psychology and related branches.

At the time of its opening, the rector of the University of Berlin sent a cablegram to Clark with the succinct words: *Vivat, Crescat, Floreat*—"May it live, may it grow, may it flourish." They were indeed most prophetic words. Viewing the alumni, young and old, here tonight we can easily see that Clark is still living, and a living force within us. That it is growing, we need only to look at the member of this gathering before us. In the twenty-five years passed since my graduation from Clark, it is the largest gathering of its kind that I have ever had the pleasure of seeing. Indeed it is growing. *Crescat Bene*—"May it well grow." That it is flourishing need only be observed in the field of human service for which the institution itself, as well as its alumni, stand as pioneers. It has ever fostered that love for research which has become a vital part in the lives of so many who received their training here. In my own case I can well attest to that.

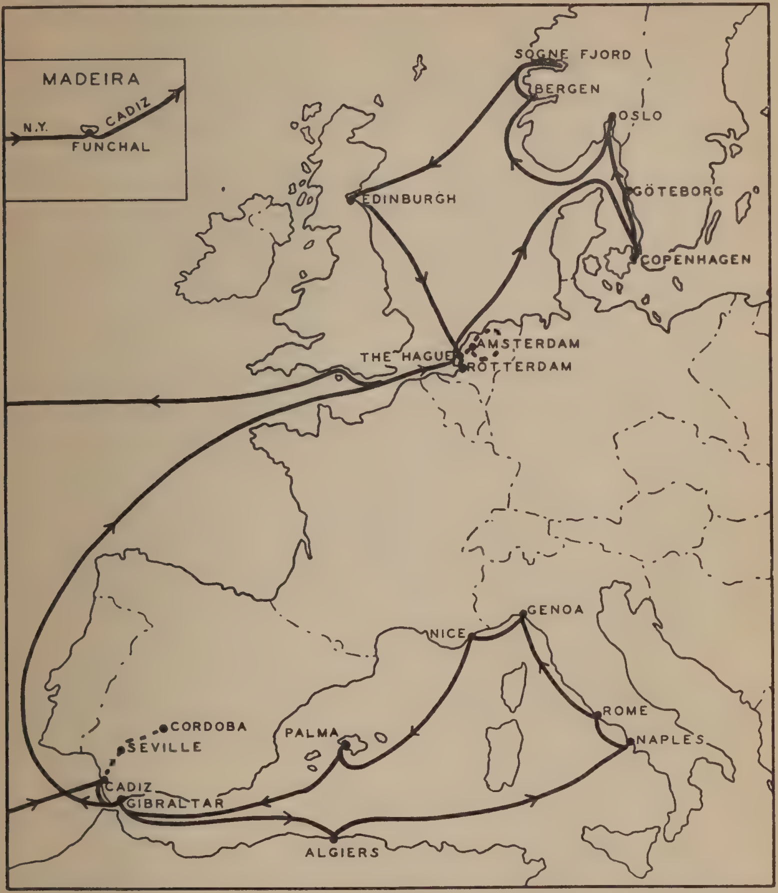
In the shaping of character as well as in molding later years of life, next to that which I received from a beloved mother whose memory I venerate, I know of no one who has been of greater service to me than one of your own staff, that faithful soul sitting here now amongst us, Benjamin S. Merigold. What I learned here from him, I still remember well, and live by!

As to the future, I feel that Clark has much yet in store for it. Its motto *Fiat Lux* alone is an inspiration. Indeed it will pave a path of glory for itself if it will ever remember in its search for new knowledge, the very source of those words *Fiat Lux*.

Charles B. L. Kelley, '09.

CLARK UNIVERSITY BULLETIN

Number 110 March, 1934


MADEIRA
N.Y.
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SOGNE FJORD
BERGEN
OSLO
EDINBURGH
GÖTEBORG
COPENHAGEN
AMSTERDAM
THE HAGUE
ROTTERDAM
GENOA
NICE
ROME
NAPLES
CORDOBA
SEVILLE
PALMA
CADIZ
GIBRALTAR
ALGIERS

THE COASTS OF EUROPE

(The Mediterranean shores of Europe and Africa and the countries around the North Sea)

Summer School Trip offered by

CLARK UNIVERSITY, Worcester, Massachusetts

July 3 to August 27, 1934

Leader: Dr. S. Van Valkenburg, Clark University
Chaperone: Miss Alice Camerer, Wayne University

Cruise on the S. S. Volendam of the Holland-America Line
with frequent shore excursions of special geographical interest.

FIRST CLASS—Sailing July 3 from New York, return August 27.

The Bulletin is published in January, February, March, April, May, June, October, November, and December. Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Accepted for mailing at special rate of postage provided for in section 1103, Act of October 3, 1917, authorized January 24, 1921.

THE COASTS OF EUROPE

This trip offers an ideal opportunity to become personally acquainted with the coastal regions of southern and northwestern Europe, both sharp contrasts to each other but both very essential in the understanding of the geography of Europe. A coastal trip has special advantages in this period of frequent political unrest. The countries to be visited are among the most peaceful in Europe. If necessary, however, any last minute change in the itinerary can be made.

The first stop will be at MADEIRA, a steep volcanic cone rising abruptly out of the Atlantic, an example of man's response to a marine subtropical environment. Then southern Spain, the fertile lowland of Andalusia, still open to the Atlantic winds, situated between the mountain wall of the Sierra Morena and the snow-capped Sierra Nevada; Sevilla, the great city of southern Spain with its architecture of the time of Spain's glory, and Cordoba, the cultural center of the Moors, will complete this picture of man and his environment.

ALGIERS, the link between Europe and Africa where a European city center fades out into native suburbs with all the attraction of Arab-African life. A visit to the cork forests in the neighborhood may be made in order to see this special type of economic activity.

NAPLES, with the always active Vesuvius closing the Bay of Naples, one of the world's great natural harbors, will be next. You will look down into the crater, with the safe protection of guides, you will walk along the streets of Pompeii, Nature's museum of Roman life, and you will drive along the coasts of Amalfi, which many think to be the finest drive possible. But most of all, you will see a population of highest rural density in Europe, perfectly adjusted to the climatic and soil conditions, with the city life of Naples as a climax to the visit.

ROME, the eternal city, will be reached through the flat plains of the Campagna Romana where the Italian government has undertaken a strong policy of reclamation on the once productive and now almost barren lowlands. Rome itself, with its threefold base: the Roman period, the Mediterranean city of the Pope, and the present capital of a young and vigorous nation, needs no description.

Then GENOA, the great port of the Po Basin and of parts of central Europe, rising on the slopes of the Apennines where they close the Gulf of Genoa. A trip to Portofino and Rapallo will show the beauty of a favorable climate—the Italian Riviera.

Going westward, a day is spent around Monte Carlo, visiting the famous drive of the GRAND CORNICHE, the resort cities of NICE and CANNES where Alpine mountains approach the Mediterranean, and the flower gardens of GRASSE, the city of perfume.

The last stop in the Mediterranean is made at PALMA, the main city of the Balearic Island, Europe's last discovered resort.

The next stop presents a sharp contrast: the Dutch coast of dunes where the North Sea canal was made connecting the harbor of AMSTERDAM with the open sea. A trip to the coastal strip of Holland with its villages hidden under trees between fields of fruits, vegetables, and bulbs, along beautiful country homes, the residency of Holland, THE HAGUE, and its famous beach, SCHEVENINGEN, with glimpses of the Dutch polders where canals and dykes border the green meadows on which cattle graze.

The three Nordic cities, COPENHAGEN, GOTHENBORG, and OSLO, represent three different countries, and each is a product of a different environment. In each case a study of the city will be followed by a trip to the hinterland. In Copenhagen the party will take the famous drive along the sound to ELSENOR, the gate to the Baltic, returning to the rolling hills of Seeland with its fertile meadows and beech forests; in Gothenborg, the coastal islands, the summer resort of the city which will be visited by motor boat; and in Oslo the Holmenkolmen, from which spot the great northern forests of conifers will be seen in all their beauty.

Bergen on Norway's west coast represents Norway's effort to conquer the difficulties of a land of mountains by using the ocean. Surrounded by the offshoots of the high plateau, built along the invading arms of the sea, protected by numerous rocky coastal islands, Bergen is an interesting city, full of modern life, but also with relics of the time when it was a Hanseatic stronghold. The Sognefjord is the most beautiful of all Norwegian fjords. Steep mountain walls, over which water tumbles, enclose along a narrow water path only small plots of land for human settlement. Up to the Naerofjord, a side branch of the Sogne, where a climb up the steep slope to the Stalheim will afford an ideal view of the fjords and the once glaciated valleys bordered by a high plateau with its ice cover.

Across the North Sea, the next stop is Edinburgh, Scotland's beautiful capital, a center of science and culture. Here the contrast will be studied between the fertile rift valley of central Scotland and the bordering Scottish Highlands with their lakes and forests: Loch Lomond, Loch Katrine, the Trossachs, names famous in Scottish life and history.

The last four days will be spent in northern Holland, a country practically unknown to foreigners, where your leader was born and brought up. The Zuider Zee, now the Yssel Lake, will be crossed by the new road over the dam which was opened last year, and so Friesland will be reached where a motorboat trip will be made from the quaint little town of Sneek in order to get an impression of the beauty of the Friesian lakes. The trip continues along the east shore of the Zuider Zee, providing a perfect opportunity to study man's life and activity, a product of a rather complex environment. The grasslands on the peat, the fruit and vegetable gardens on the clay, and the forested sandy hills have each a different type of human life. At Apeldoorn, a garden city, the royal summer palace will be visited, if the queen is not in residence, and Arnhem, one of the most popular points of a former trip of the leader, will again be used as a stop. The last day the car brings us along the winding course of the Vecht, once one of the delta branches of the Rhine, to Amsterdam, Holland's capital, from where at night the boat train connects with the steamer at Rotterdam.

Note: An extension of one week, returning on the S. S. Statendam, can be arranged, making it possible to visit London or Paris, or both, if desired. This extended trip will not be a part of the regular trip and will not be under the responsibility of Clark University. The price of a week in Paris (everything included) is $86 and in London, $99. Both trips start at Amsterdam. Details may be secured from the leader.

The Itinerary

July 3. Sail from New York at night
12. Funchal, Madeira
14-15. Cadiz, Spain
16. Gibraltar
18. Algiers
20-22. Naples, Italy
23. Rome, Italy
24. Genoa, Italy
25. Monte Carlo
27. Palma, Balearic

August 2. The Hague, Holland
4. Copenhagen, Denmark
5. Gothenborg, Sweden
6-7. Oslo, Norway
8. Bergen, Norway
9. Sognefjord, Norway
11-12. Edinburgh, Scotland
14-17. Holland
17. Sail from Rotterdam at night
27. Arrive at New York

S. S. Volendam: This ship is exceptionally adapted for a cruise and has been used frequently for trips to Bermuda and the West Indies, besides being used for regular crossings, Holland to America, and trips to Norway.

Ample deck space for leisure and sports, luxurious salons, excellent food, frequent entertainments, and courteous service will make the sea trip a pleasure. Simple but good accommodations will be reserved for the members. Better accommodations can be obtained if desired; details and extra costs may be secured from the leader of the trip.

Expenses: The price of the trip is $686, including the registration fee for the Clark University Summer School. This amount includes all expenses from New York to New

York (does not include tips on boat), and the visae necessary to visit foreign countries. Passports should be sent to the leader, Dr. S. Van Valkenburg, Clark University, before June 1st in order that he can take care of the visae. Down payments of $60 should be made immediately when signing up as a member in order to insure good cabin reservations. The balance should be paid on or before June 1st. As a similar cruise last year was sold out as early as May 15, early registration is necessary in order to avoid disappointments. Checks should be made payable to S. Van Valkenburg.

College Credit: Six semester hours of credit towards a degree at Clark University will be granted to members of the party upon the successful completion of the trip and the writing of a full geographical description, which should be sent in not later than January 1, 1935. If transfer of credit to another institution is desired, arrangements for acceptance of the credit should be made in advance. A limited number of members who do not wish to earn college credit are welcome provided they are interested in geography and its problems. During the sea trip each day, except Sunday, a lecture will be given by the leader on the countries to be visited.

Baggage: A steamer trunk, not over 15 inches high, is accepted for the cabin. Large trunks can be put in storage and can be opened every day for use. For the land trips a small suitcase is best. Warm clothing is advisable for the boat trip and northern Europe, as well as comfortable walking shoes. Warm weather can be expected in Spain and in Italy.

Note: All arrangements of the party will be carried out under the conditions as stipulated in the cruise membership, passage tickets, and literature.

Note: Dr. W. Elmer Ekblaw of Clark University is planning a Summer School trip for 1935 to the European countries around the North Sea and the Baltic, visiting Ireland, Great Britain, Norway, Sweden, Finland, and the Baltic States.

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CLARK UNIVERSITY SCHOOL OF GEOGRAPHY

WORCESTER, MASSACHUSETTS

Summer School, July 2 to August 10

The Clark University Summer School is organized for the special interest of teachers of geography and history. In 1934, the offerings in geography include Geography in Education, Economic Geography, Human Geography, Europe, North America, New England, Mathematical Geography, Map Interpretation, Physiography, Weather and Climate, Field Studies, Research, Seminar.

The offerings in history include American History, European History, Social and Intellectual History, International Relations, Research. Other courses are offered in Economics, Sociology, English, and Education.

A staff of specialists in their various subjects, classes of moderate size, superior library facilities, and Saturday field trips to regions of geographic and historic interest, offer advantages for summer study.

Following the Summer School, a field trip of two weeks will visit the Appalachian Highlands by motor coach, southward to Asheville, North Carolina.

Home Study Courses in Geography

Home Study Courses may be begun at any time and pursued as rapidly as opportunity permits. Eight courses are offered in the teaching of Geography and twelve courses in the academic phases of the subject. One of these is "A Home Study Course for European Travel." Indicate your chief interests and full information will be sent to you.

Address: Clark University Summer School, Worcester Massachusetts.

J. S. WESBY & SONS Worcester
FEB 1935